# Volute pumps
## for heat carrier oils up to 350 °C

## SIHI*SuperNova*

## ZTND 032-125 . . . 200-500

FLOWSERVE
SIHI® Pumps

### TECHNICAL DATA

| | |
|---|---|
| Output: | max. 1000 m³/h |
| Delivery head: | max. 95 m |
| Speed: | max. 3600 rpm |
| Temperature: | max. 350 °C |
| Casing pressure: | PN 16 |
| Shaft sealing: | radial seal rings or mechanical seal |
| Flange connection: | DIN EN 1092-2 PN 16 / 25 [1)] |
| Direction of rotation: | clockwise, when looking at the pump from the drive end |

### APPLICATION

Volute pumps of the series ZTN have been specially developed for handling of mineral and synthetic heat transfer oils. The pumps may be used in installations with positive or negative suction pressure.
Especially to be emphasised is the application in plants of:

**The chemical industry:**
heating of agitators, reactors, drying plants, polymerisation plants, plants for conveying high-viscous products and producing plastic materials and synthetic fibres.

**The rubber and plastic industry:**
heating of calendars, melting pots, power presses for plastics, automatic injection moulding machines, production of PVC adhesive tape.

**The food industry:**
heating of baking and fish-frying ovens, distillation of fatty acids and glycerine, fat softening plants, production of potato chips and milk powder.

**The paper industry and laundries:**
calendar rolls, production of corrugated cardboard, heating of washing machines, mangles and dryers.

### DESIGN

Horizontal, single-stage volute pumps with the dimensions and nominal ratings to 24255/EN 733 in back pull out design* which permits the removal of the complete bearing unit toward the drive end without removing the pump casing from the pipe work. If a spacer coupling is installed it is also unnecessary to disconnect the motor.
The programme comprises 38 pump sizes, but only three shaft assemblies are required owing to the unit construction system. Within each shaft assembly, shafts, shaft sealing, impeller fastenings, bearing bracket and bearing covers are inter-changeable.
The DIN 4754 regulations are complied with.
Should heat carrier seepage occur from the shaft seal, it is ensured that the leakage will be drained off and collected completely.
[1)] from size 150315 to 200500
* due to additional sizes the performance range is increased to higher output rates.

### CONSTRUCTION

**Casing pressure:**

Maximal 16 bar from 0 °C to 120 °C
Maximal 13 bar from 120 °C to 300 °C
Maximal 10 bar from 300 °C to 350 °C
Intermediate values can be obtained by interpolation.
**Please note:**
Technical rules and safety regulations.
Max. Casing pressure = inlet pressure + zero head
Admissible inlet pressure (system pressure) = 5 bar when using shaft sealing 002.
Admissible inlet pressure = admissible casing pressure when using shaft sealing GBC.

**Flanges location:**

Axial suction flange, discharge flange radially upwards.

**Flanges:**

The flanges comply with DIN EN1092-2/PN 16, resp. PN 25. Flanges drilled to according to ANSI (previous ASA) 150 can be supplied.

**Hydraulic:**

Designation of this construction type: A, B, D

**Bearing:**

One grease-lubricated grooved ball bearing resp. 2 inclined ball bearings (the first grease filling is made in the factory) and one internal liquid flushed sleeve bearing.
Designation of this construction type: ·A

**Direction of rotation:**

Clockwise, when looking at the pump from the drive end.

**Shaft sealing:**

| | |
|---|---|
| Code 002: | several radial shaft seal rings arranged in in series; uncooled |
| Code GBC: | unbalanced bellows mechanical seal<br>seal face materials cast chromium steel/carbon<br>elastomer FPM (Viton) |

**Material design:**

| ITEM | COMPONENTS | MATERIAL | | | | | | EXECUTION | |
|---|---|---|---|---|---|---|---|---|---|
| | | EN mat.-number | EN mat.- denomination | DIN mat.-number | DIN mat.- denomination | US denomination ASTM Standard | US denomination AISI | 1B | 2B (1) |
| 10.20 | Volute casing | EN-JS 1025 | EN-GJS-400-18-LT | 0.7043 | GGG-40.3 | A 395 | | X | |
| | | 1.0619 | GP 240 GH | 1.0619 | GS-C 25 | A 216 Gr WCB | | | X |
| 16.10 | Casing cover | EN-JS 1025 | EN-GJS-400-18-LT | 0.7043 | GGG-40.3 | A 395 | | X | |
| | | 1.0619 | GP 240 GH | 1.0619 | GS-C 25 | A 216 Gr WCB | | | X |
| 21.00 | Shaft | 1. 1191 | C 45 E | 1.1191 | Ck 45 K + N | A 576 Gr 1045 | 1045 | X | |
| | | 1.4021 | X 20 Cr 13 | 1.4021 | X 20 Cr 13 | A 276 Type 420 | 420 | X (2) | X |
| 23.00<br>33.00<br>36.00 | Impeller<br>Bearing bracket<br>Bearing cover | EN-JL 1040 | EN-GJL 250 | 0.6025 | GG-25 | A 278 Class 30 | | X | X |
| 42.13 | Radial seal rings | FPM (Viton) | | | | | | X | X |
| 43.30 | Mechanical seal | chrome cast / carbon FPM (Viton) | | | | | | X | X |
| 44.10<br>44.11 | Casing for mech. seal<br>Seal of the shaft casing | 1. 1191 | C 45 E | 1.1191 | Ck 45 K + N | A 576 Gr 1045 | 1045 | X | X |
| 54.51 | Sleeve bearing | carbon | | | | | | X | X |

(1) For sizes 200400 and 200500.

(2) For sizes 150315, 150400, 150500, 200250 and 200315.

**Casing gasket:**

The casing is sealed by flat gaskets of graphite. Designation of this construction type: 2

**Motor power:**

Using commercial electric motors, type of construction IM B3.
To determine the drive power we recommend the following safety margin:
Up to 4 kW: 25% 4 to 7,5 kW: 20% above 7,5 kW: 15%

The following maximum speeds are to be observed:

| max. speed n = 3600 rpm | size | max. speed n = 3000 rpm | size | max. speed n = 1800 rpm | size | max. speed n = 1500 rpm | size |
|---|---|---|---|---|---|---|---|
| t = 120 °C | 032125 050200<br>032160 065125<br>032200 065160<br>040125 065200<br>040160 080160<br>040200 080200<br>050125 100160<br>050160 100200 | t = 120 °C | 032250<br>040250<br>050250<br>065250<br>080250<br>100250<br>125200 | t = 120 °C | 040315 150315<br>050315 150400<br>065315 200250<br>080315<br>100315<br>125250<br>150200<br>150250 | t = 120 °C | 150500<br>200315<br>200400<br>200500 |
| t = 350 °C | 032125 050200<br>032160 065125<br>032200 065160<br>040125 080200<br>040160 100160<br>040200<br>050125<br>050160 | t = 350 °C | 032250<br>040250<br>050250<br>065200<br>065250<br>080160<br>080250<br>100200<br>100250 | t = 350 °C | 040315 150250<br>050315<br>065315<br>080315<br>100315<br>125200<br>125250<br>150200 | t = 350 °C | 150315<br>150400<br>150500<br>200250<br>200315<br>200400<br>200500 |

The maximum speeds result from the permissible peripheral speeds of the impellers or from the shaft load admissible at higher temperatures, respectively.

**Bearing bracket / pump size:**

| | |
|---|---|
| Bracket 25 | 032125 032160 032200 032250 040125 040160 040200 040250 050125 050160 050200 050250 065125 065160 065200 080160 |
| Bracket 35 | 040315 050315 065250 065315 080200 080250 080315 100160 100200 100250 100315 125200 125250 150200 150250 |
| Bracket 45 | 150315 150400 150500 200250 200315 200400 200500 |

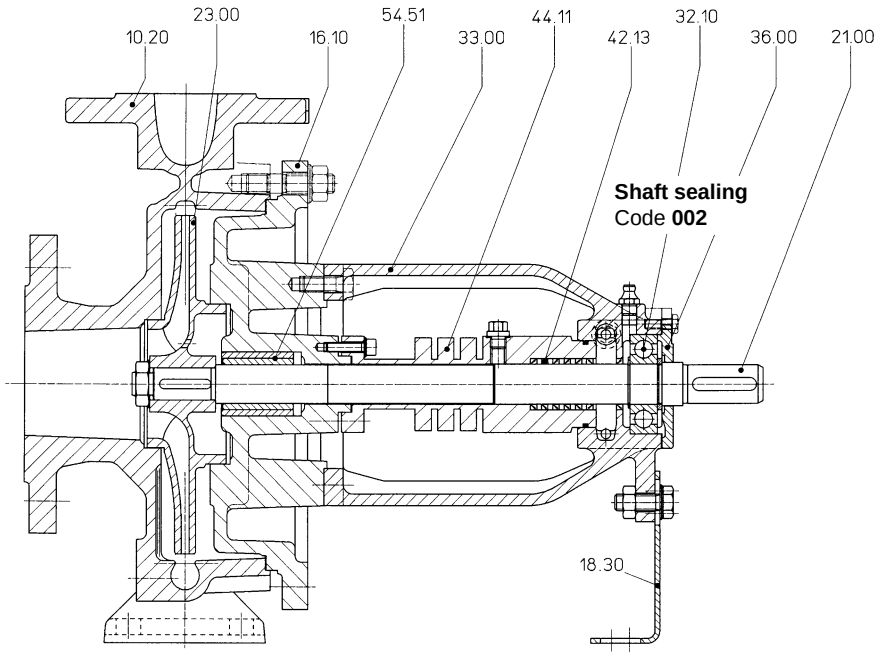
**General remarks:**

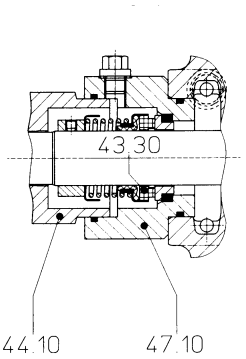
For horizontal volute pumps CLOSE COUPLED construction with STANDARD motor for nominal performances and flange connections as per EN 733 refer to our series **ZTK.**
For INLINE pumps with the same drive unit, consisting of bearing bracket with bearing, stub shaft and mechanical seal, casing cover, impeller and impeller nut, refer to our series **ZTI**.
For equipping hot media systems a complete programme is available for a flow range between 1-600 $m^3/h$ consisting of the range:

- **ZEN** volute pumps to EN 22858, $t_{max}$ 230 °C PN 40. Hot water design.
- **ZDN** volute pumps to EN 22858, $t_{max}$ 207 °C PN 25. Hot water design.
- **ZHN** volute pumps to EN 733, $t_{max}$ 180 °C PN 16. Hot water design.
- **ZLI** volute pumps to EN 733 as INLINE construction, $t_{max}$ 150 °C PN 25. Hot water design.

Technical documentation on these programmes will readily be supplied on request.

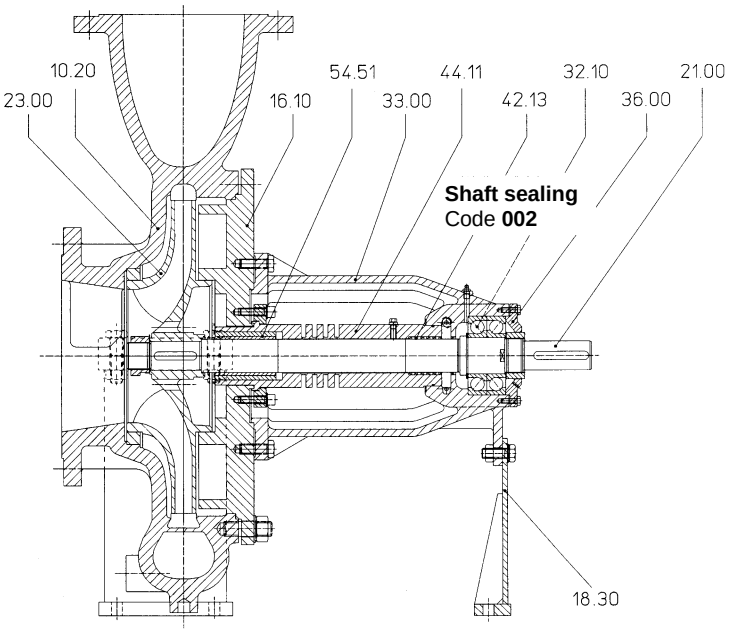
**SECTIONAL DRAWING AND NOMENCLATURE**
**ZTN 032125 ... 150250**



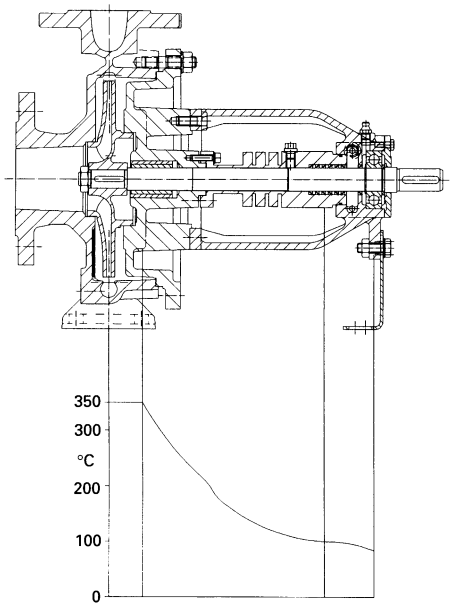




| | |
|---|---|
| 10.20 | volute casing |
| 16.10 | casing cover |
| 18.30 | supporting foot |
| 21.00 | shaft |
| 23.00 | impeller |
| 32.10 | grooved ball bearing |
| 33.00 | bearing bracket |
| 36.00 | bearing cover |
| 42.13 | radial seal ring |
| 43.30 | mechanical seal |
| 44.10 | shaft seal casing |
| 44.11 | shaft seal casing |
| 47.10 | sealing cover |
| 54.51 | sleeve bearing |

**ZTN 150315 ... 200500**



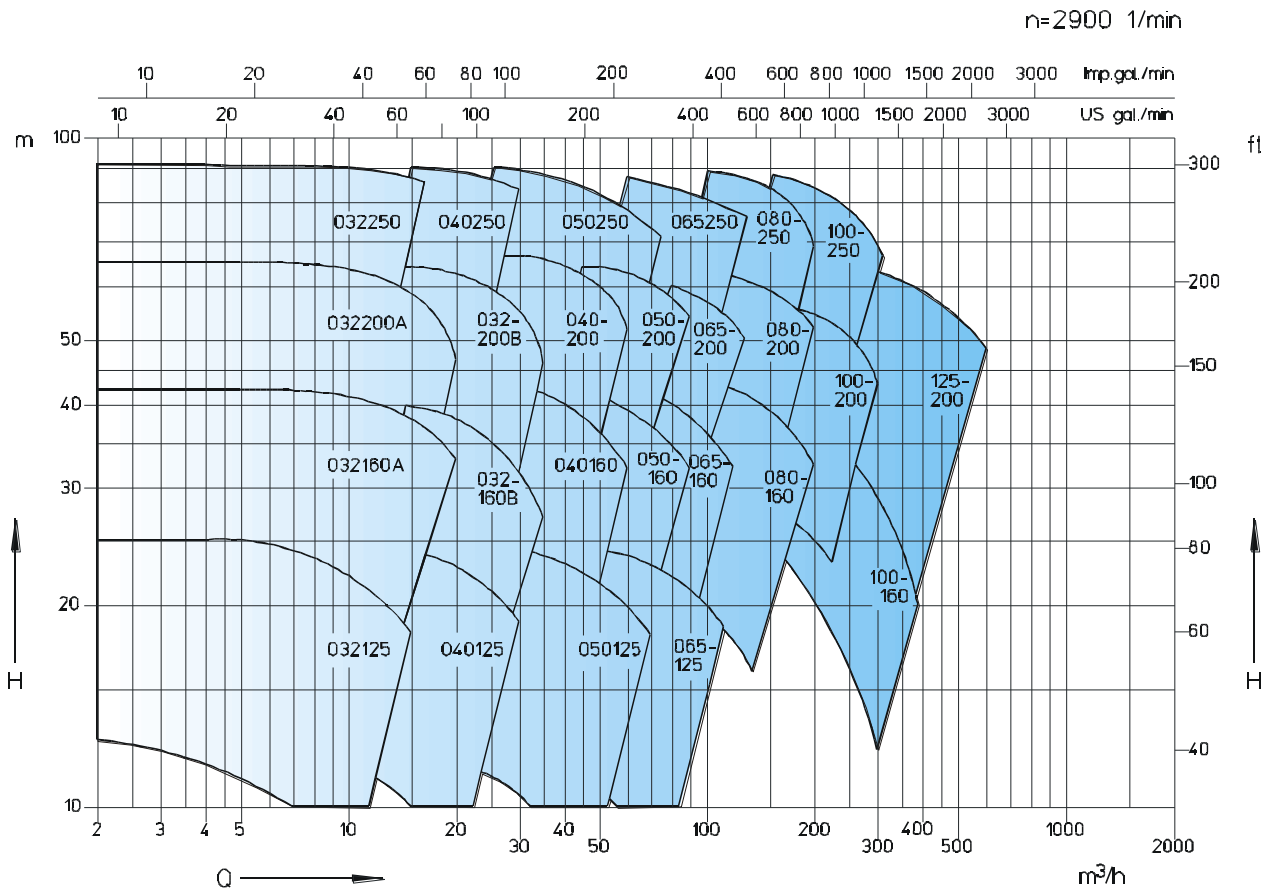

**Heat barrier / shaft sealing / bearing**

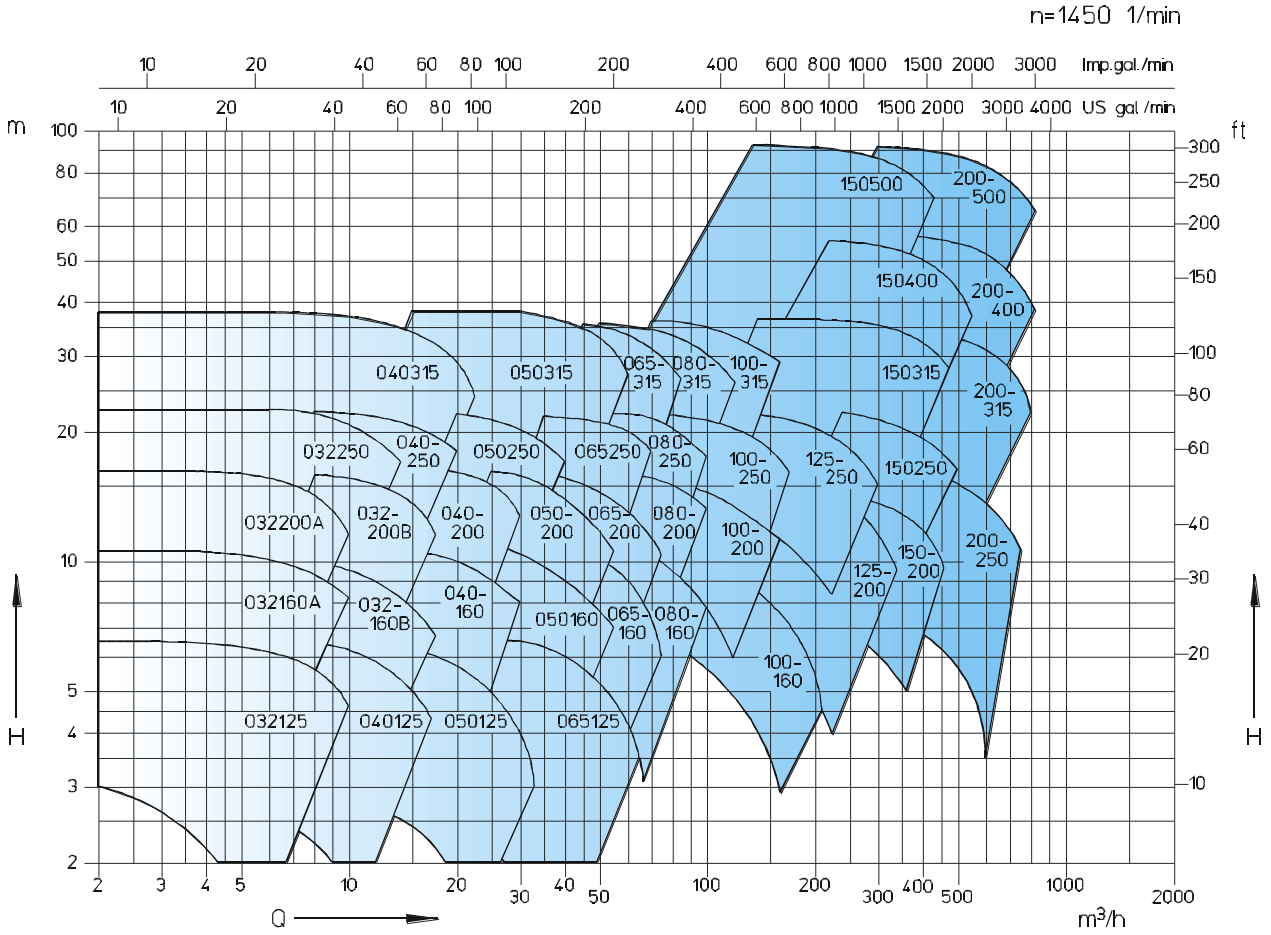



Heat transfer installations have achieved a high level of technical development. Consequently the requirements on pumps handling heat transfer oils have increased regarding operating safety, environmental protection, maintenance and operating costs. The Sterling SIHI ZTN pump, based on many years of experience and on the latest technical know-how, fully complies with these requirements.

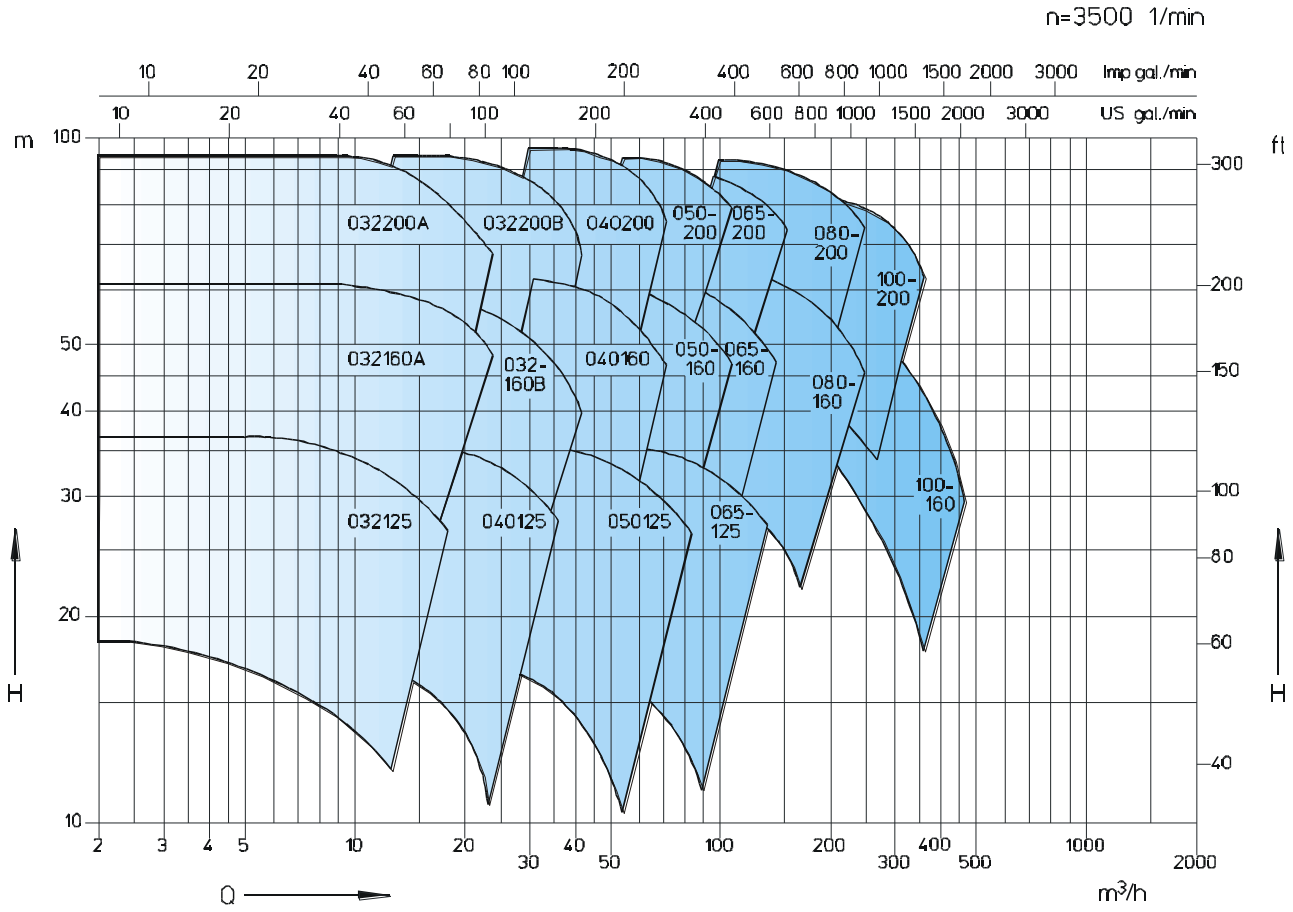
By the heat barrier with integrated throttle gab, located behind the cover, a favourable drop in temperature toward the drive side is achieved (see opposite drawing). Heat losses at the product side are effectively prevented (saving of energy). The reduced temperature allows the use of simple, uncooled type of shaft sealing. As the lubricating properties of heat transfer oils for antifriction bearings are not specially good, a liquid flushed sleeve bearing has been fitted at the impeller side and an antrifriction bearing, not in contact with the heat carrier, has been fitted behind the shaft sealing. By this arrangement noiseless operation and long working life have been achieved.

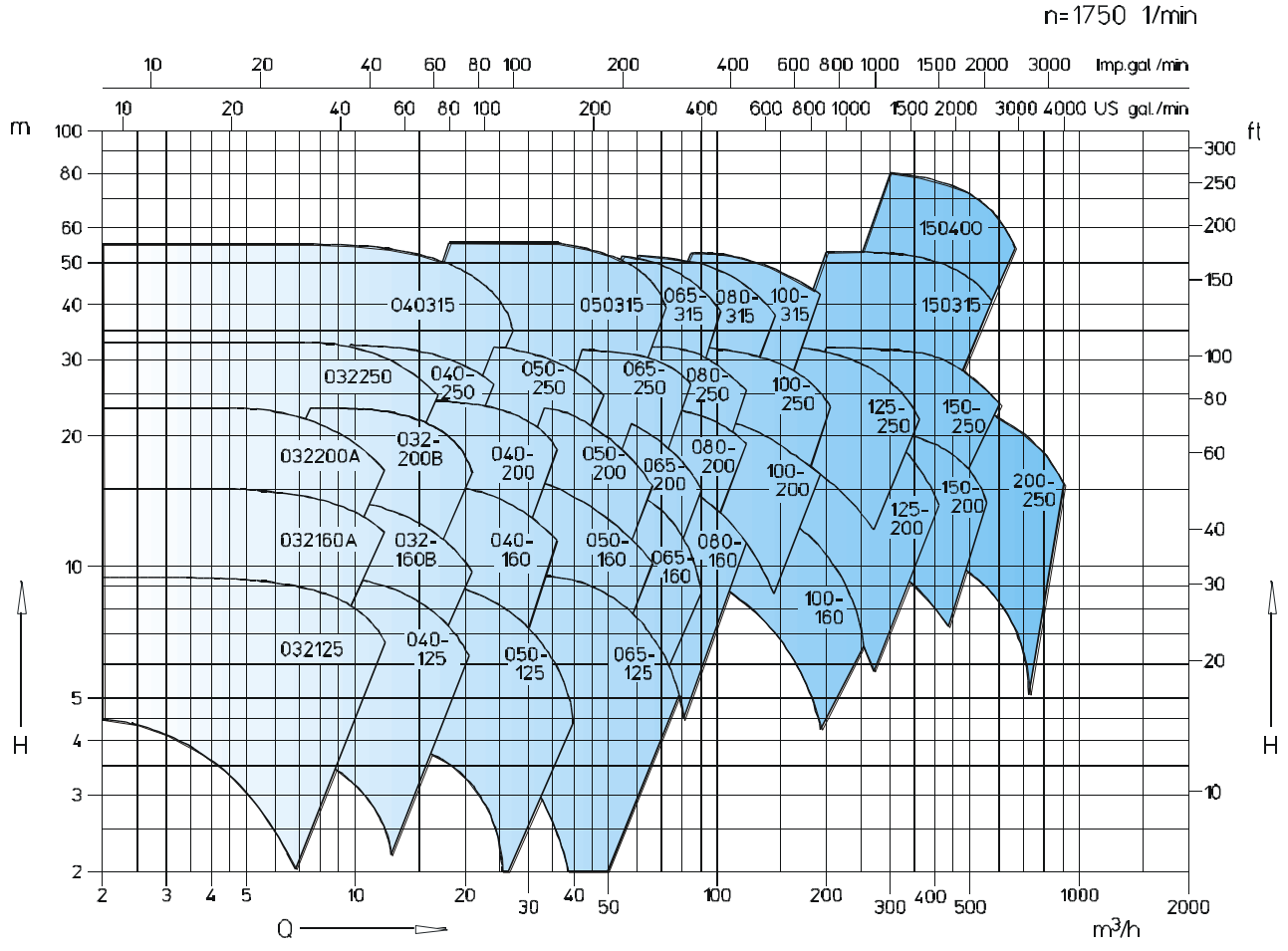
**Performance graph** **50 Hz**



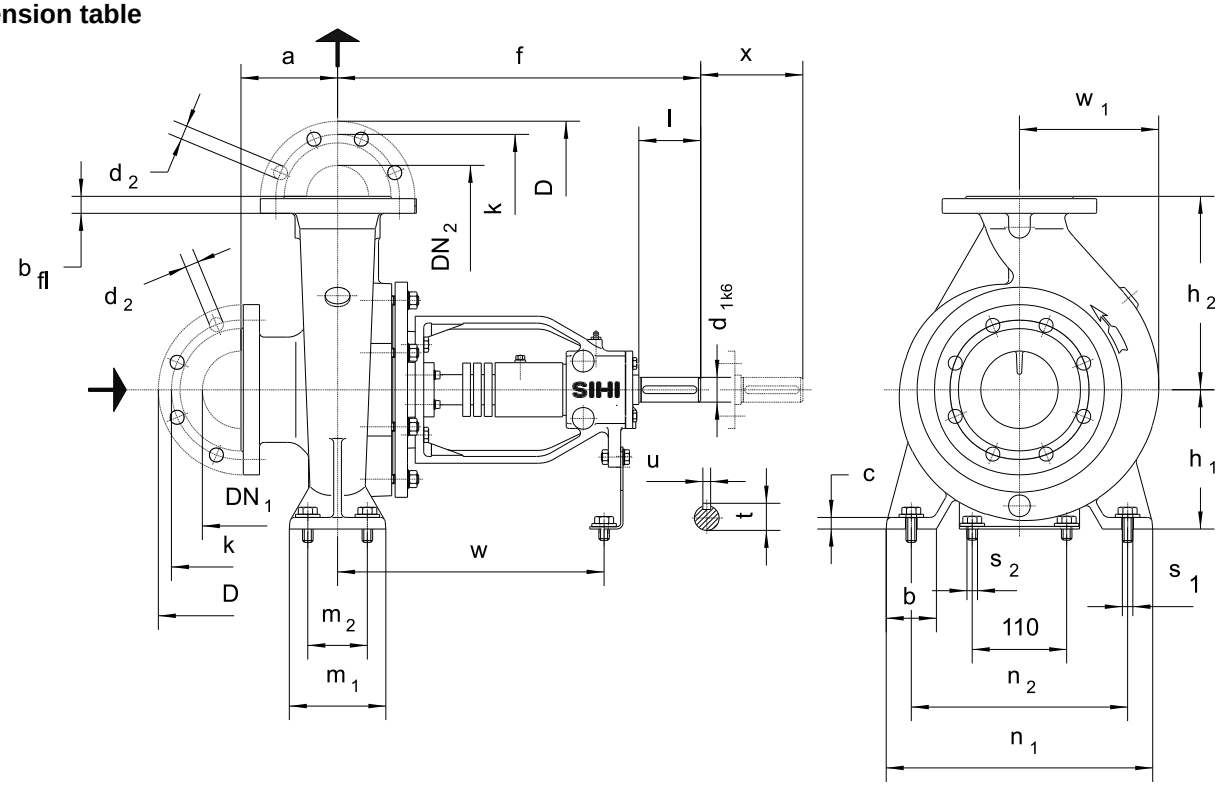



**Performance graph** **60 Hz**



## Dimension table

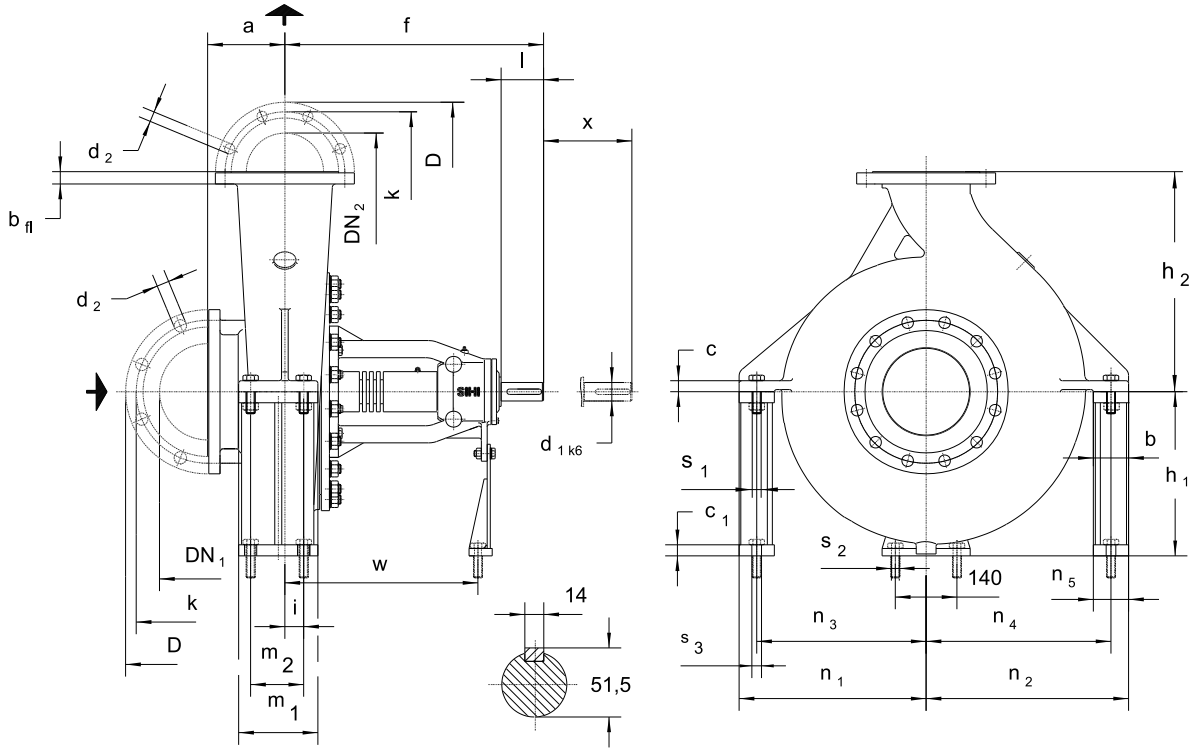



All dimensions in mm.

| size | $DN_2$ | $DN_1$ | a | b | c | f | $h_1$ | $h_2$ | $m_1$ | $m_2$ | $n_1$ | $n_2$ | $s_{1*}$ | $s_{2*}$ | w | $w_1$ | x | $d_1$ | l | t | u |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 032125 | 32 | 50 | 80 | 50 | 15 | 360 | 112 | 140 | 100 | 70 | 190 | 140 | M12 | M12 | 267 | 105 | 100 | 24 | 50 | 27 | 8 |
| 032160 | | | | | | | 132 | 160 | | | 240 | 190 | | | | 120 | | | | | |
| 032200 | | | | | | | 160 | 180 | | | | | | | | 127 | | | | | |
| 032250[1)] | | | 100 | 65 | | | 180 | 225 | 125 | 95 | 320 | 250 | | | | 160 | | | | | |
| 040125 | 40 | 65 | 80 | 50 | | | 112 | 140 | 100 | 70 | 210 | 160 | | | | 108 | | | | | |
| 040160 | | | | | | | 132 | 160 | | | 240 | 190 | | | | 128 | | | | | |
| 040200 | | | 100 | | | | 160 | 180 | | | 265 | 212 | | | | 140 | | | | | |
| 040250 | | | | 65 | | | 180 | 225 | 125 | 95 | 320 | 250 | | | | 164 | | | | | |
| 040315[1)] | | | 125 | | 18 | 470 | 225 | 250 | | | 345 | 280 | | | 340 | 204 | | 32 | 80 | 35 | 10 |
| 050125 | 50 | | 100 | 50 | 15 | 360 | 132 | 160 | 100 | 70 | 240 | 190 | | | 267 | 120 | | 24 | 50 | 27 | 8 |
| 050160 | | | | | | | 160 | 180 | | | 265 | 212 | | | | 130 | | | | | |
| 050200 | | | | | | | | 200 | | | | | | | | 150 | | | | | |
| 050250 | | | | 65 | | | 180 | 225 | 125 | 95 | 320 | 250 | | | | 169 | | | | | |
| 050315[1)] | | | 125 | | 17 | 470 | 225 | 280 | | | 345 | 280 | | | 340 | 210 | | 32 | 80 | 35 | 10 |
| 065125 | 65 | 80 | 100 | 65 | 15 | 360 | 160 | 180 | 125 | 95 | 280 | 212 | | | 267 | 140 | | 24 | 50 | 27 | 8 |
| 065160 | | | | | | | | 200 | | | | | | | | 147 | | | | | |
| 065200 | | | | | | | 180 | 225 | | | 320 | 250 | | | | 166 | | | | | |
| 065250 | | | | 80 | | 470 | 200 | 250 | 160 | 120 | 360 | 280 | M16 | | 340 | 183 | | 32 | 80 | 35 | 10 |
| 065315 | | | 125 | | 18 | | 225 | 280 | | | 400 | 315 | | | | 220 | | | | | |
| 080160 | 80 | 100 | | 65 | 15 | 360 | 180 | 225 | 125 | 95 | 320 | 250 | M12 | | 267 | 165 | | 24 | 50 | 27 | 8 |
| 080200 | | | | | | | | 250 | | | 345 | 280 | | | 340 | 180 | | 32 | 80 | 35 | 10 |
| 080250 | | | | 80 | 18 | 470 | 200 | 280 | 160 | 120 | 400 | 315 | M16 | | | 200 | | | | | |
| 080315 | | | | | | | 250 | 315 | | | | | | | | 235 | | | | | |
| 100160[1)] | 100 | 125 | | | | | 200 | 280 | | | 360 | 280 | | | | 202 | 140 | | | | |
| 100200 | | | | | | | | | | | | | | | | | 120 | | | | |
| 100250 | | | 140 | | | | 225 | | | | 400 | 315 | | | | 212 | | | | | |
| 100315 | | | | | | | 250 | 315 | | | | | | | | 242 | | | | | |
| 125200[1)] | 125 | 150 | | | | | | | | | | | | | | | 140 | | | | |
| 125250 | | | | | | | | 355 | | | | | | | | 236 | 120 | | | | |
| 150200[1)] | 150 | 200 | 160 | 100 | 20 | | 280 | 400 | 200 | 150 | 550 | 450 | M20 | | | 274 | 190 | | | | |
| 150250[1)] | | | | | | | | | | | 500 | 400 | | | | | 170 | | | | |

[1)] Transnorm pump sizes, not included in DIN 24255/ EN 733. Flanges drilled according to ANSI 150 can be suplied.
* Slots suitable for bolts with dimensions indicated. Bolts are not included in the bare shaft pump standard scope of supply.

**Dimension table**



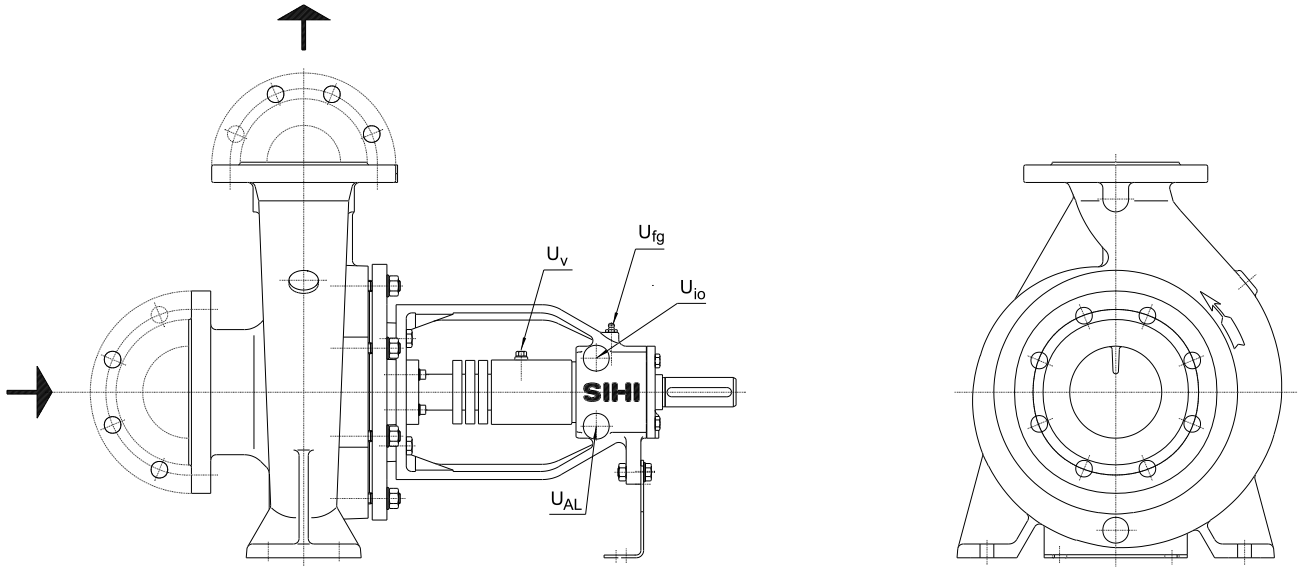

All dimensions in mm.

| size | $DN_2$ | $DN_1$ | a | f | $h_1$ | $h_2$ | $m_1$ | $m_2$ | i | l | x | $d_1$ | w | c | $c_1$ | $s_1$ | $s_{2*}$ | $s_{3*}$ | $n_1$ | $n_2$ | $n_3$ | $n_4$ | b,$n_5$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150315[1)] | 150 | 200 | 180 | 670 | 315 | 400 | 180 | 120 | 35 | 110 | 180 | 48 | 500 | 25 | 23 | M20 | M12 | M20 | 320 | 360 | 290 | 330 | 60 |
| 150400[1)] | | | | | 355 | 450 | | | | | | | | | | | | | 380 | 420 | 340 | 380 | 80 |
| 150500[1)] | | | | | 400 | 500 | | | 45 | | | | | | | | M16 | | 425 | 460 | 385 | 420 | |
| 200250[1)] | 200 | | 250 | | 335 | 425 | | | | | | | | | | | M12 | | 340 | 410 | 300 | 370 | |
| 200315[1)] | | 250 | 200 | | 355 | 450 | | | | | | | | | | | M16 | | 360 | 420 | 320 | 380 | |
| 200400[1)] | | | | | 375 | 500 | | | 35 | | | | | | | | | | 400 | 480 | 360 | 440 | |
| 200500[1)] | | | | | 425 | 560 | 220 | 160 | 50 | | | | | 30 | | | | | 475 | 575 | 425 | 525 | 100 |

[1)] Transnorm pump sizes, not included in DIN 24255/ EN 733. Flanges drilled according to ANSI 150 can be suplied.
* Slots suitable for bolts with dimensions indicated. Bolts are not included in the bare shaft pump standard scope of supply.

| Flange connection according to DIN EN 1092-2 PN 16 Execution material 1B | | | | | | | | | | DIN EN 1092-2 PN 25 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Execution material 1B | | | Execution material 2B | |
| $DN_2/DN_1$ | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 150 | 200 | 250 | 200 | 250 |
| D | 140 | 150 | 165 | 185 | 200 | 220 | 250 | 285 | 340 | 300 | 360 | 425 | 360 | 425 |
| k | 100 | 110 | 125 | 145 | 160 | 180 | 210 | 240 | 295 | 250 | 310 | 370 | 310 | 370 |
| $b_{fl}$ | 18 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 20 | 20 | 22 | 24,5 | 30 | 32 |
| Tolerances | | | | | +4,0 -3,0 | | | | | | +4,5 -4,0 | | +1,5 -1,5 | |
| $d_2$ x number | 19x4 | 19x4 | 19x4 | 19x4 | 19x8 | 19x8 | 19x8 | 23x8 | 23x12 | 28x8 | 28x12 | 31x12 | 26x12 | 30x12 |

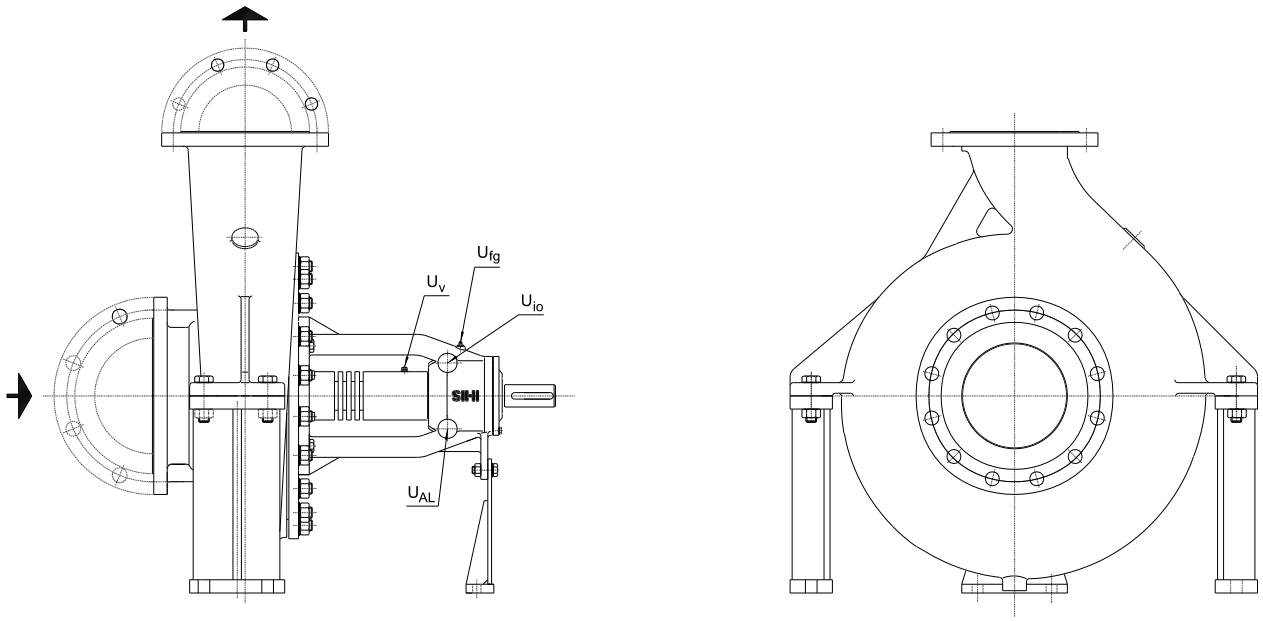
**Connections for bearing brackets 25 and 35**




$u_{fg}$ : Grease filling connection.
$u_{io}$ : Sealing liquid connection.
$u_{AL}$ : Drainage for leakage.
$u_v$ : Vent connection

| Size | $u_{fg}$ | $u_v$ | $u_{io}$ | $u_{AL}$ |
|---|---|---|---|---|
| 032125 | G 1/8 | G 1/8 | G 1/4 | G 1/4 |
| 032160 | | | | |
| 032200 | | | | |
| 032250 | | | | |
| 040125 | | | | |
| 040160 | | | | |
| 040200 | | | | |
| 040250 | | | | |
| 040315 | | | | |
| 050125 | | | | |
| 050160 | | | | |
| 050200 | | | | |
| 050250 | | | | |
| 050315 | | | | |
| 065125 | | | | |
| 065160 | | | | |
| 065200 | | | | |
| 065250 | | | | |
| 065315 | | | | |
| 080160 | | | | |
| 080200 | | | | |
| 080250 | | | | |
| 080315 | | | | |
| 100160 | | | | |
| 100200 | | | | |
| 100250 | | | | |
| 100315 | | | | |
| 125200 | | | | |
| 125250 | | | | |
| 150200 | | | | |
| 150250 | | | | |

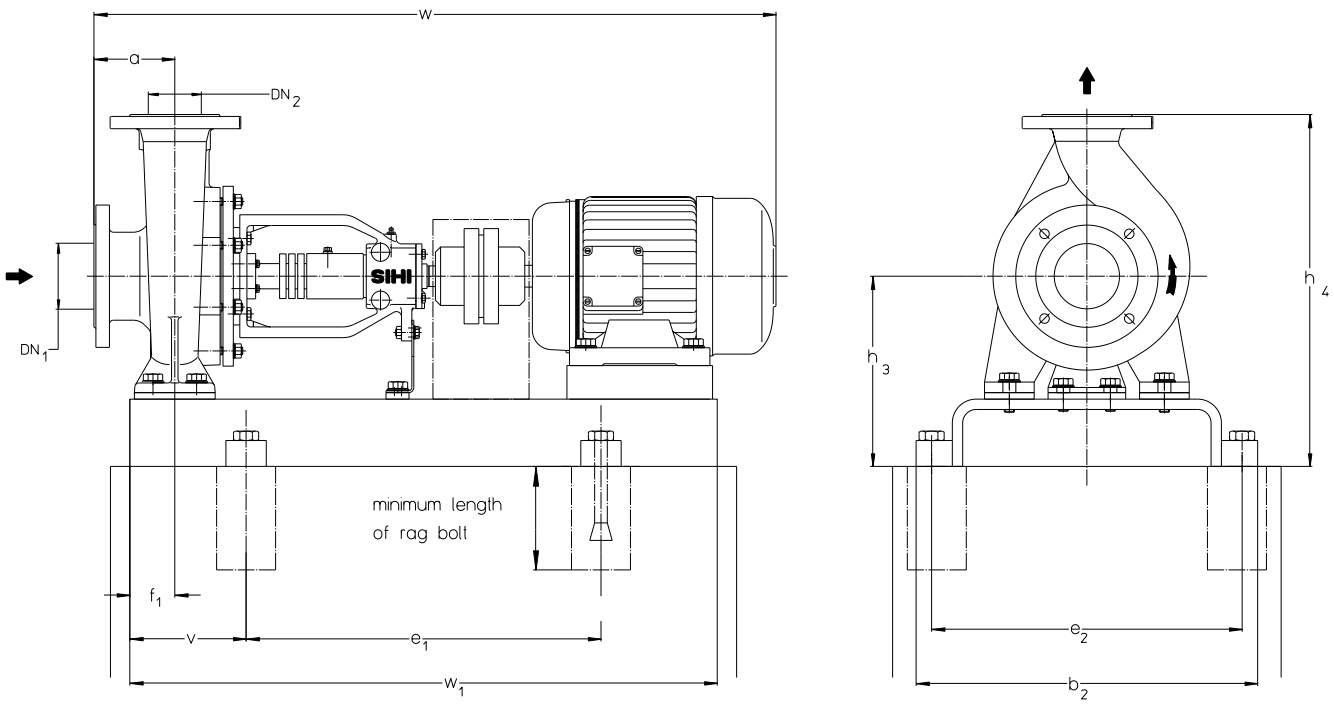
**Connections for bearing bracket 45**




$u_{fg}$ : Grease filling connection.
$u_{io}$ : Sealing liquid connection.
$u_{AL}$ : Drainage for leakage.
$u_v$ : Vent connection.

| Size | $u_{fg}$ | $u_v$ | $u_{io}$ | $u_{AL}$ |
|---|---|---|---|---|
| 150315 | G 1/8 | G 1/8 | G 1/4 | G 1/4 |
| 150400 | | | | |
| 150500 | | | | |
| 200250 | | | | |
| 200315 | | | | |
| 200400 | | | | |
| 200500 | | | | |

**Foundation plan** **n = 1450 rpm**




Dimensions in mm.
Dimensional tolerances admissible (base plates) for welded parts according to DIN 8570 B

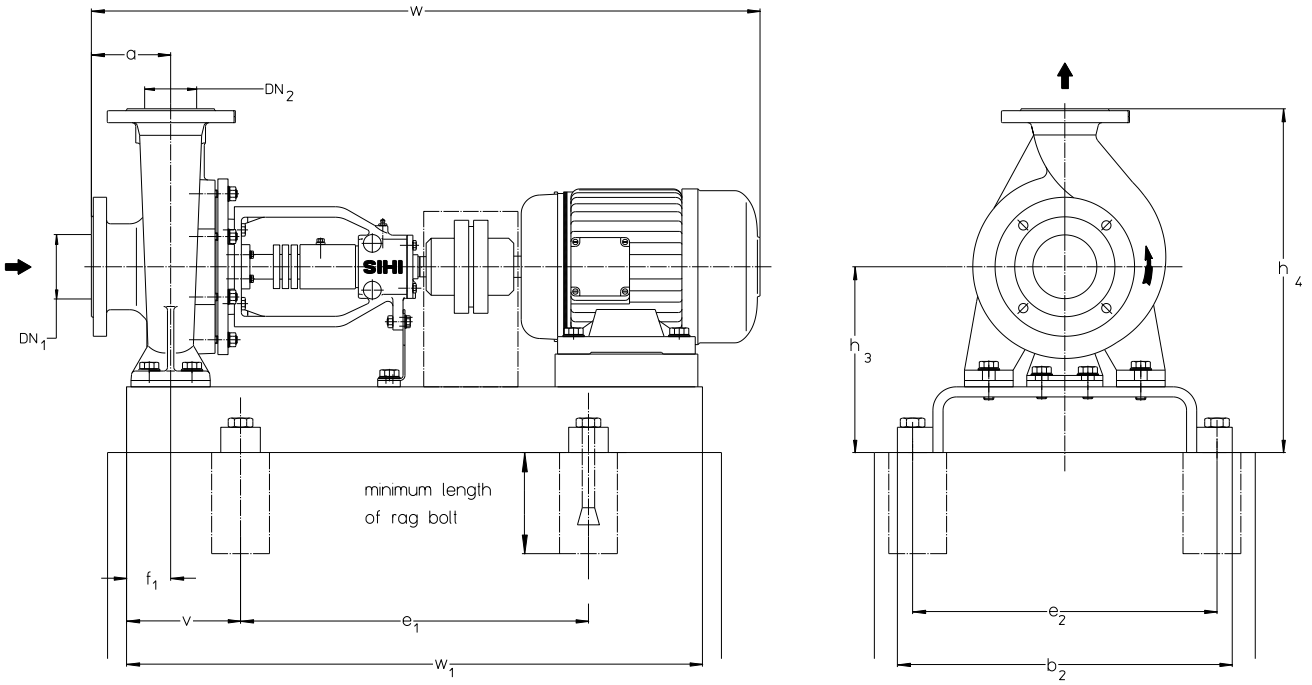
| size | motor size | motor kW | base plate No. | coup-ling ** | weight pump kg | weight Unit kg | $DN_2$ | $DN_1$ | a | $b_2$ | $e_1$ | $e_2$ | v | $f_1$ | $h_3$ | $h_4$ | w* | $w_1$ | rag bolt DIN 529 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 032125 | 71 | 0,25 | S008 | B68 | 32 | 51 | 32 | 50 | 80 | 297 | 400 | 265 | 120 | 60 | 152 | 292 | 682 | 640 | M12x100 |
| | 71 | 0.37 | | | | 52 | | | | | | | | | | | | | |
| 032160 | 71 | 0.37 | S270 | | 41 | 69 | | | | 360 | 420 | 320 | 115 | | 197 | 357 | 716 | 650 | M16x200 |
| | 80 | 0.55 | | | | 72 | | | | | | | | | | | | | |
| 032200 | 80 | 0.55 | | | 39 | 70 | | | | | | | | | 225 | 405 | | | |
| | 80 | 0.75 | | | | | | | | | | | | | | | | | |
| | 90S | 1.10 | S301 | | | 78 | | | | 390 | 480 | 350 | 125 | | | | 774 | 730 | |
| | 90L | 1.50 | | | | 80 | | | | | | | | | | | | | |
| 032250 | 80 | 0.75 | S383 | | 52 | 103 | | | 100 | 490 | 600 | 440 | 160 | 75 | 260 | 485 | 736 | 920 | M20x400 |
| | 90S | 1.10 | | | | 106 | | | | | | | | | | | 794 | | |
| | 90L | 1.50 | | | | 108 | | | | | | | | | | | | | |
| | 100L | 2.20 | | B80 | | 118 | | | | | | | | | | | 835 | | |
| 040125 | 71 | 0,25 | S270 | B68 | 34 | 61 | 40 | 65 | 80 | 360 | 420 | 320 | 115 | 60 | 177 | 317 | 682 | 650 | M16x200 |
| | 71 | 0.37 | | | | 62 | | | | | | | | | | | | | |
| | 80 | 0.55 | | | | 65 | | | | | | | | | | | 716 | | |
| 040160 | 71 | 0.37 | | | 39 | 69 | | | | | | | | | 197 | 357 | 682 | | |
| | 80 | 0.55 | | | | 70 | | | | | | | | | | | 716 | | |
| | 80 | 0.75 | | | | | | | | | | | | | | | | | |
| | 90S | 1.10 | S301 | | | 78 | | | | 390 | 480 | 350 | 125 | | 225 | 405 | 774 | 730 | |
| 040200 | 80 | 0.55 | | | 43 | 79 | | | 100 | | | | | | | | 736 | | |
| | 80 | 0.75 | | | | | | | | | | | | | | | | | |
| | 90S | 1.10 | | | | 82 | | | | | | | | | | | 794 | | |
| | 90L | 1.50 | | | | 84 | | | | | | | | | | | | | |
| 040250 | 90S | 1.10 | S383 | | 57 | 111 | | | | 490 | 600 | 440 | 160 | 75 | 260 | 485 | | 920 | M20x400 |
| | 90L | 1.50 | | | | 113 | | | | | | | | | | | | | |
| | 100L | 2.20 | | B80 | | 123 | | | | | | | | | | | 835 | | |
| | 100L | 3.00 | | | | | | | | | | | | | | | | | |
| 040315 | 100L | 2.20 | | | 87 | 153 | | | 125 | | | | | | 305 | 555 | 970 | | |
| | 100L | 3.00 | | | | | | | | | | | | | | | | | |
| | 112M | 4.00 | | | | 154 | | | | | | | | | | | 991 | | |
| | 132S | 5.50 | S434 | B95 | | 199 | | | | 540 | 660 | 490 | 170 | | | | 1067 | 1000 | |
| 050125 | 71 | 0.37 | S270 | B68 | 35 | 63 | 50 | 65 | 100 | 360 | 420 | 320 | 115 | 60 | 197 | 357 | 702 | 650 | M16x200 |
| | 80 | 0.55 | | | | 67 | | | | | | | | | | | 736 | | |
| | 80 | 0.75 | | | | | | | | | | | | | | | | | |
| 050160 | 80 | 0.55 | S301 | | 44 | 80 | | | | 390 | 480 | 350 | 125 | | 225 | 405 | 736 | 730 | |
| | 80 | 0.75 | | | | | | | | | | | | | | | | | |
| | 90S | 1.10 | | | | 83 | | | | | | | | | | | 794 | | |
| 050200 | 80 | 0.75 | | | 43 | 79 | | | | | | | | | | 425 | 736 | | |
| | 90S | 1.10 | | | | 82 | | | | | | | | | | | 794 | | |
| | 90L | 1.50 | | | | 84 | | | | | | | | | | | | | |
| | 100L | 2.20 | | B80 | | 94 | | | | | | | | | | | 835 | | |
| 050250 | 90L | 1.50 | S383 | B68 | 57 | 113 | | | | 490 | 600 | 440 | 160 | 75 | 260 | 485 | 794 | 920 | M20x400 |
| | 100L | 2.20 | | B80 | | 123 | | | | | | | | | | | 835 | | |
| | 100L | 3.00 | | | | | | | | | | | | | | | | | |
| | 112M | 4.00 | | | | 124 | | | | | | | | | | | 856 | | |
| 050315 | 112M | 4.00 | S434 | B95 | 90 | 157 | | | 125 | 540 | 660 | 490 | 170 | | 305 | 585 | 991 | 1000 | |
| | 132S | 5.50 | | | | 202 | | | | | | | | | | | 1067 | | |
| | 132M | 7.50 | | | | 205 | | | | | | | | | | | 1093 | | |

**Foundation plan** **n = 1450 rpm**

| size | motor size | motor kW | base plate No. | coup-ling ** | weight pump kg | weight Unit kg | $DN_2$ | $DN_1$ | a | $b_2$ | $e_1$ | $e_2$ | v | $f_1$ | $h_3$ | $h_4$ | w* | $w_1$ | rag bolt DIN 529 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 065125 | 80 | 0.55 | S342 | B68 | 39 | 83 | 65 | 80 | 100 | 450 | 540 | 400 | 140 | 60 | 240 | 420 | 736 | 820 | M20x400 |
| | 80 | 0.75 | | | | | | | | | | | | | | | | | |
| | 90S | 1,10 | | | | 86 | | | | | | | | | | | 794 | | |
| 065160 | 80 | 0.75 | | | 45 | 89 | | | | | | | | | | 440 | 736 | | |
| | 90S | 1,10 | | | | 92 | | | | | | | | | | | 794 | | |
| | 90L | 1.50 | | | | 94 | | | | | | | | | | | | | |
| | 100L | 2.20 | | B80 | | 105 | | | | | | | | | | | 835 | | |
| 065200 | 90S | 1,10 | S383 | B68 | 48 | 102 | | | | 490 | 600 | 440 | 160 | 75 | 260 | 485 | 794 | 920 | |
| | 90L | 1,50 | | | | 104 | | | | | | | | | | | | | |
| | 100L | 2,20 | | B80 | | 114 | | | | | | | | | | | 835 | | |
| | 100L | 3,00 | | | | | | | | | | | | | | | | | |
| | 112M | 4,00 | | | | 115 | | | | | | | | | | | 856 | | |
| 065250 | 100L | 2,20 | S434 | | 78 | 161 | | | | 540 | 660 | 490 | 170 | 90 | 280 | 530 | 945 | 1000 | |
| | 100L | 3,00 | | | | | | | | | | | | | | | | | |
| | 112M | 4,00 | | | | 162 | | | | | | | | | | | 966 | | |
| | 132M | 5,50 | | B95 | | 190 | | | | | | | | | 300 | 550 | 1042 | | |
| 065315 | 132S | 5,50 | S486 | | 94 | 231 | | | 125 | 610 | 840 | 550 | 205 | | 325 | 605 | 1067 | 1250 | M24x400 |
| | 132M | 7,50 | | | | 234 | | | | | | | | | | | 1093 | | |
| | 160M | 11,00 | | | | 250 | | | | | | | | | | | 1185 | | |
| | 160L | 15,00 | | B110 | | 280 | | | | | | | | | | | 1247 | | |
| 080160 | 80 | 0.75 | S383 | B68 | 51 | 102 | 80 | 100 | 125 | 490 | 600 | 440 | 160 | 75 | 260 | 485 | 761 | 920 | M20x400 |
| | 90S | 1.10 | | | | 105 | | | | | | | | | | | 819 | | |
| | 90L | 1.50 | | | | 107 | | | | | | | | | | | | | |
| | 100L | 2.20 | | B80 | | 118 | | | | | | | | | | | 860 | | |
| | 100L | 3.00 | | | | | | | | | | | | | | | | | |
| 080200 | 90L | 1.50 | | | 71 | 127 | | | | | | | | | | 510 | 929 | | |
| | 100L | 2.20 | | | | 137 | | | | | | | | | | | 970 | | |
| | 100L | 3.00 | | | | | | | | | | | | | | | | | |
| | 112M | 4.00 | | | | 138 | | | | | | | | | | | 991 | | |
| | 132S | 5.50 | S434 | B95 | | 183 | | | | 540 | 660 | 490 | 170 | | | | 1067 | 1000 | |
| 080250 | 100L | 3.00 | S486 | B80 | 84 | 192 | | | 125 | 610 | 840 | 550 | 205 | 90 | 300 | 580 | 970 | 1250 | M24x400 |
| | 112M | 4.00 | | | | 193 | | | | | | | | | | | 991 | | |
| | 132S | 5.50 | | B95 | | 221 | | | | | | | | | | | 1067 | | |
| | 132M | 7.50 | | | | 224 | | | | | | | | | | | 1093 | | |
| 080315 | 132S | 5.50 | | | 104 | 241 | | | | | | | | | 350 | 665 | 1067 | | |
| | 132M | 7.50 | | | | 244 | | | | | | | | | | | 1093 | | |
| | 160M | 11.00 | | | | 260 | | | | | | | | | | | 1185 | | |
| | 160L | 15.00 | | B110 | | 290 | | | | | | | | | | | 1247 | | |
| 100160 | 100L | 2.20 | S434 | B80 | 80 | 163 | 100 | 125 | | 540 | 660 | 490 | 170 | | 280 | 560 | 971 | 1000 | M20x400 |
| | 100L | 3.00 | | | | | | | | | | | | | | | | | |
| | 112M | 4.00 | | | | 164 | | | | | | | | | | | 992 | | |
| | 132S | 5.50 | | B95 | | 192 | | | | | | | | | | | 1068 | | |
| 100200 | 100L | 2.20 | | B80 | 79 | 162 | | | | | | | | | 280 | 560 | 971 | | |
| | 100L | 3.00 | | | | | | | | | | | | | | | | | |
| | 112M | 4.00 | | | | 163 | | | | | | | | | | | 992 | | |
| | 132S | 5.50 | | B95 | | 191 | | | | | | | | | | | 1068 | | |
| | 132M | 7.50 | | | | 194 | | | | | | | | | | | 1094 | | |
| 100250 | 112M | 4.00 | S486 | B80 | 89 | 198 | | | 140 | 610 | 840 | 550 | 205 | | 325 | 605 | 1006 | 1250 | M24x400 |
| | 132S | 5.50 | | | | 226 | | | | | | | | | | | 1082 | | |
| | 132M | 7.50 | | B95 | | 229 | | | | | | | | | | | 1108 | | |
| | 160M | 11.00 | | | | 245 | | | | | | | | | | | | | |
| 100315 | 160M | 11.00 | | | 106 | 262 | | | | | | | | | 350 | 665 | 1200 | | |
| | 160L | 15.00 | | B110 | | 292 | | | | | | | | | | | 1262 | | |
| | 180M | 18.50 | | | | 304 | | | | | | | | | | | 1324 | | |
| | 180L | 22.00 | | B125 | | 320 | | | | | | | | | | | | | |
| 125200 | 132M | 7.50 | | B95 | 102 | 242 | 125 | 150 | | | | | | | | | 1108 | | |
| | 160M | 11.00 | | | | 258 | | | | | | | | | | | 1200 | | |
| | 160L | 15.00 | | B110 | | 288 | | | | | | | | | | | 1262 | | |
| 125250 | 132M | 7.50 | | B95 | 109 | 249 | | | | | | | | | | 705 | 1108 | | |
| | 160M | 11.00 | | | | 265 | | | | | | | | | | | 1200 | | |
| | 160L | 15.00 | | B110 | | 295 | | | | | | | | | | | 1262 | | |
| 150200 | 132M | 7,50 | S605 | B95 | 120 | 278 | 150 | 200 | 160 | 730 | 740 | 670 | 190 | 110 | 380 | 780 | 1128 | 1120 | |
| | 160M | 11,00 | | | | 294 | | | | | | | | | | | 1220 | | |
| | 160L | 15,00 | | B110 | | 323 | | | | | | | | | | | 1282 | | |
| | 180M | 18,50 | | | | 335 | | | | | | | | | | | 1344 | | |
| | 180L | 22,00 | S606 | B125 | | 351 | | | | | 840 | | 205 | | | | 1346 | 1250 | |
| | 200L | 30,00 | | | | 395 | | | | | | | | | | | 1404 | | |
| 150250 | 160L | 15,00 | S605 | B110 | 134 | 337 | | | | | 740 | | 190 | | | | 1282 | 1120 | |
| | 180M | 18,50 | | | | 339 | | | | | | | | | | | 1344 | | |
| | 180L | 22,00 | S606 | B125 | | 377 | | | | | 840 | | 205 | | | | | 1250 | |
| | 200L | 30,00 | | | | 421 | | | | | | | | | | | 1402 | | |
| | 225S | 37,00 | | B140 | | 467 | | | | | | | | | | | 1469 | | |
| | 225M | 45,00 | | | | 487 | | | | | | | | | | | | | |
| 150315 | Foundation plans with base plates and fittings on request | | | | | | | | | | | | | | | | | | |
| 150400 | | | | | | | | | | | | | | | | | | | |
| 150500 | | | | | | | | | | | | | | | | | | | |
| 200250 | | | | | | | | | | | | | | | | | | | |
| 200315 | | | | | | | | | | | | | | | | | | | |
| 200400 | | | | | | | | | | | | | | | | | | | |
| 200500 | | | | | | | | | | | | | | | | | | | |

* Motor protection type IP 55, dimensions depend on the motor manufacturer.
Some sizes are not corresponding to the drawing in small details.
Foundation plan for 60 Hz on request.

**Foundation plan** **n = 2900 rpm**




Dimensions in mm.
Dimensional tolerances admissible (base plates) for welded parts according to DIN 8570 B

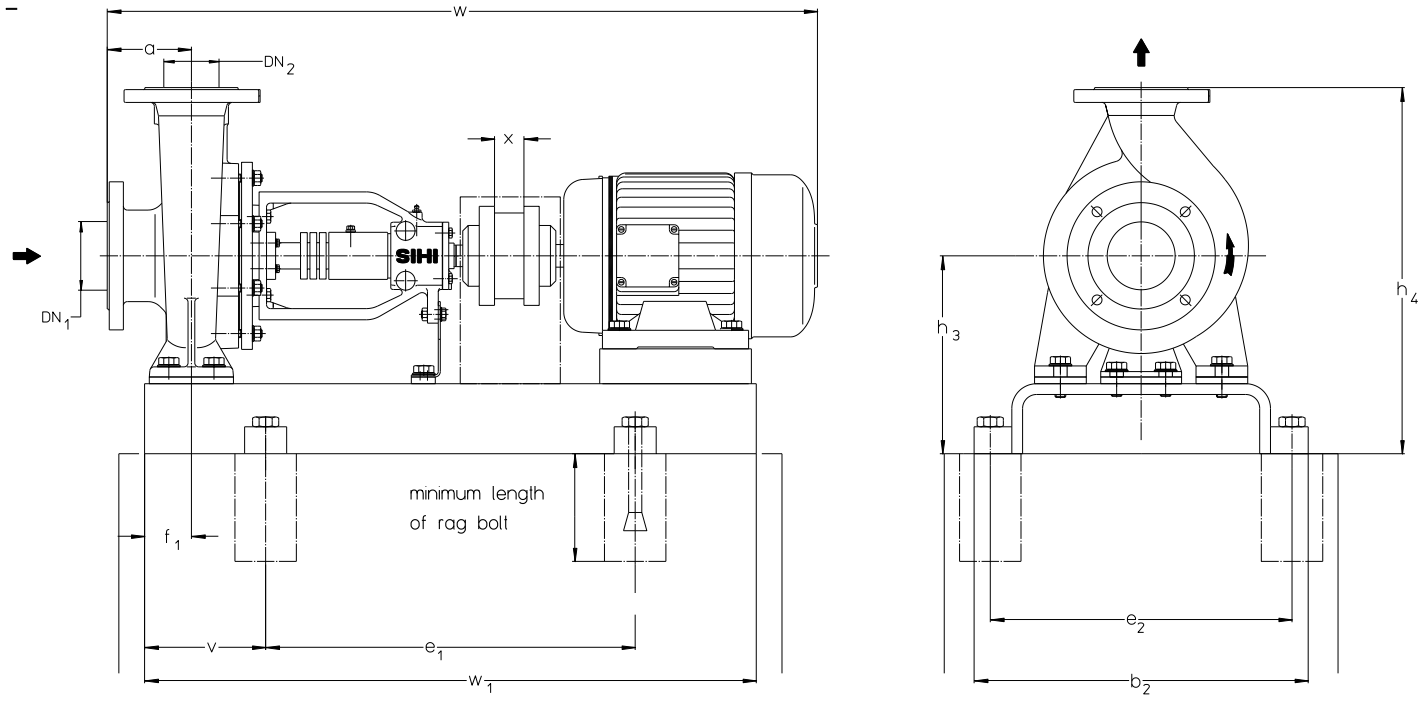
| size | motor size | motor kW | base plate No. | coup-ling ** | weight pump kg | weight Unit kg | $DN_2$ | $DN_1$ | a | $b_2$ | $e_1$ | $e_2$ | v | $f_1$ | $h_3$ | $h_4$ | w* | $w_1$ | rag bolt DIN 529 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 032125 | 71 | 0.55 | S008 | B68 | 32 | 52 | 32 | 50 | 80 | 297 | 400 | 265 | 120 | 60 | 152 | 292 | 682 | 640 | M12x100 |
| | 80 | 0.75 | | | | 55 | | | | | | | | | | | 716 | | |
| | 80 | 1.10 | | | | | | | | | | | | | | | | | |
| | 90S | 1.50 | S241 | | | 67 | | | | 330 | 480 | 290 | 125 | | 177 | 317 | 774 | 730 | M16x200 |
| | 90L | 2.20 | | | | 69 | | | | | | | | | | | | | |
| 032160 | 80 | 1,10 | S270 | | 41 | 72 | | | | 360 | 420 | 320 | 115 | | 197 | 357 | 716 | | |
| | 90S | 1.50 | S301 | | | 80 | | | | 390 | 480 | 350 | 125 | | | | 774 | | |
| | 90L | 2.20 | | | | 82 | | | | | | | | | | | | | |
| | 100L | 3.00 | | B80 | | 92 | | | | | | | | | | | 815 | | |
| | 112M | 4.00 | | | | 93 | | | | | | | | | | | 836 | | |
| | 132S | 5.50 | S342 | B95 | | 130 | | | | 450 | 540 | 400 | 140 | | 212 | 372 | 895 | 820 | M20x400 |
| | 132S | 7.50 | | | | | | | | | | | | | | | 912 | | |
| 032200 | 90L | 2.20 | S301 | B68 | 39 | 80 | | | | 390 | 480 | 350 | 125 | | 225 | 405 | 774 | 730 | M16x200 |
| | 100L | 3.00 | | B80 | | 90 | | | | | | | | | | | 815 | | |
| | 112M | 4.00 | | | | 91 | | | | | | | | | | | 836 | | |
| | 132S | 5.50 | S342 | B95 | | 128 | | | | 450 | 540 | 400 | 140 | | 240 | 420 | 912 | 820 | M20x400 |
| | 132S | 7.50 | | | | | | | | | | | | | | | | | |
| | 160M | 11,00 | S383 | | | 147 | | | | 490 | 600 | 440 | 160 | | | | 1088 | 920 | |
| | 160M | 15.00 | | | | | | | | | | | | | | | | | |
| | 160L | 18.50 | S344 | | | 175 | | | | 450 | 660 | 400 | 180 | | | | 1150 | 1020 | |
| 032250 | 132S | 7.50 | S383 | | 52 | 148 | | | 100 | 490 | 600 | 440 | 160 | 75 | 260 | 485 | 932 | 920 | |
| | 160M | 11.00 | | | | 167 | | | | | | | | | | | 1050 | | |
| | 160M | 15.00 | | | | | | | | | | | | | | | | | |
| 040125 | 80 | 1.10 | S270 | B68 | 34 | 65 | 40 | 65 | 80 | 360 | 420 | 320 | 115 | 60 | 177 | 317 | 716 | 650 | M16x200 |
| | 90S | 1.50 | S241 | | | 70 | | | | 330 | 480 | 290 | 125 | | | | 774 | 730 | |
| | 90L | 2.20 | | | | 71 | | | | | | | | | | | | | |
| | 100L | 3.00 | | B80 | | 82 | | | | | | | | | | | 815 | | |
| 040160 | 90S | 1,50 | S301 | B80 | 39 | 78 | | | | 390 | | 350 | | | 197 | 357 | 776 | | |
| | 90L | 2,20 | | | | 80 | | | | | | | | | | | | | |
| | 100L | 3.00 | | | | 90 | | | | | | | | | | | 815 | | |
| | 112M | 4.00 | | | | 91 | | | | | | | | | | | 836 | | |
| | 132S | 5.50 | S342 | B95 | | 128 | | | | 450 | 540 | 400 | 140 | | 212 | 372 | 912 | 820 | M20x400 |
| | 132S | 7.50 | | | | 138 | | | | | | | | | | | 895 | | |
| | 160M | 11.00 | S383 | | | 159 | | | | 490 | 600 | 440 | 160 | | | | 1030 | 920 | |
| 040200 | 100L | 3,00 | S301 | B80 | 43 | 94 | | | 100 | 390 | 480 | 350 | 125 | | 225 | 405 | 817 | 730 | M16x200 |
| | 112M | 4.00 | | | | 95 | | | | | | | | | | | 856 | | |
| | 132S | 5.50 | S342 | B95 | | 132 | | | | 450 | 540 | 400 | 140 | | 240 | 420 | 932 | 820 | M20x400 |
| | 132S | 7.50 | | | | | | | | | | | | | | | | | |
| | 160M | 11.00 | S383 | | | 158 | | | | 490 | 600 | 440 | 160 | | | | 1050 | 920 | |
| | 160M | 15.00 | | | | | | | | | | | | | | | | | |
| 040250 | 132S | 7.50 | | | 57 | 153 | | | | | | | | 75 | 260 | 485 | 932 | | |
| | 160M | 11.00 | | | | 172 | | | | | | | | | | | 1050 | | |
| | 160M | 15.00 | | | | | | | | | | | | | | | | | |
| | 160L | 18.50 | S434 | | | 216 | | | | 540 | 660 | 490 | 170 | | | | 1112 | 1000 | |

**Foundation plan** **n = 2900 rpm**

| size | motor size | motor kW | base plate No. | coup-ling ** | weight pump kg | weight unit kg | $DN_2$ | $DN_1$ | a | $b_2$ | $e_1$ | $e_2$ | v | $f_1$ | $h_3$ | $h_4$ | w* | $w_1$ | rag bolt DIN 5298 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 050125 | 90S | 1,50 | S301 | B68 | 35 | 74 | 50 | 65 | 100 | 390 | 480 | 350 | 125 | 60 | 197 | 357 | 794 | 730 | M16x200 |
| | 90L | 2,20 | | | | 76 | | | | | | | | | | | | | |
| | 100L | 3,00 | S272 | B80 | | 86 | | | | 360 | 540 | 320 | 140 | | | | 835 | 820 | |
| | 112M | 4,00 | | | | 87 | | | | | | | | | | | 856 | | |
| | 132S | 5,50 | S342 | B95 | | 124 | | | | 450 | | 400 | | | 212 | 372 | 932 | | M20x400 |
| 050160 | 90L | 2,20 | S301 | B68 | 44 | 85 | | | | 390 | 480 | 350 | 125 | | 225 | 405 | 794 | 730 | M16x200 |
| | 100L | 3,00 | | B80 | | 95 | | | | | | | | | | | 835 | | |
| | 112M | 4,00 | | | | 96 | | | | | | | | | | | 856 | | |
| | 132S | 5,50 | S342 | B95 | | 133 | | | | 450 | 540 | 400 | 140 | | 240 | 420 | 932 | 820 | M20x400 |
| | 132S | 7,50 | | | | | | | | | | | | | | | | | |
| | 160M | 11,00 | S383 | | | 159 | | | | 490 | 600 | 440 | 160 | | | | 1050 | 920 | |
| 050200 | 100L | 3,00 | S301 | B80 | 43 | 94 | | | | 390 | 480 | 350 | 125 | | 225 | 425 | 817 | 730 | M16x200 |
| | 112M | 4,00 | | | | 95 | | | | | | | | | | | 858 | | |
| | 132S | 5,50 | S342 | B95 | | 132 | | | | 450 | 540 | 400 | 140 | | 240 | 440 | 932 | 820 | M20x400 |
| | 132S | 7,50 | | | | | | | | | | | | | | | | | |
| | 160M | 11,00 | S383 | | | 158 | | | | 490 | 600 | 440 | 160 | | | | 1050 | 920 | |
| | 160M | 15,00 | | | | | | | | | | | | | | | | | |
| | 160L | 18,50 | S344 | | | 163 | | | | 450 | 660 | 400 | 180 | | | | | 1020 | |
| 050250 | 160M | 11,00 | S383 | | 57 | 172 | | | | 490 | 600 | 440 | 160 | 75 | 260 | 485 | | 920 | |
| | 160M | 15,00 | | | | | | | | | | | | | | | | | |
| | 160L | 18,50 | S434 | | | 216 | | | | 540 | 660 | 490 | 170 | | | | 1112 | 1000 | |
| | 180M | 22,00 | | B110 | | 229 | | | | | | | | | | | 1174 | | |
| | 200L | 30,00 | S435 | B125 | | 296 | | | | | 740 | | 200 | | 280 | 505 | 1232 | 1140 | |
| 065125 | 100L | 3.00 | S342 | B80 | 39 | 99 | 65 | 80 | | 450 | 540 | 400 | 140 | 60 | 240 | 420 | 835 | 820 | M20x400 |
| | 112M | 4.00 | | | | 100 | | | | | | | | | | | 856 | | |
| | 132S | 5.50 | | B95 | | 128 | | | | | | | | | | | 932 | | |
| | 132S | 7.50 | | | | | | | | | | | | | | | | | |
| 065160 | 132S | 5.50 | | | 45 | 134 | | | | | | | | | | 440 | | | |
| | 132S | 7.50 | | | | | | | | | | | | | | | | | |
| | 160M | 11.00 | S383 | | | 160 | | | | 490 | 600 | 440 | 160 | | | | 1050 | 920 | |
| | 160M | 15.00 | | | | | | | | | | | | | | | | | |
| 065200 | 160M | 11.00 | | | 48 | 163 | | | | | | | | 75 | 260 | 485 | | | |
| | 160M | 15.00 | | | | | | | | | | | | | | | | | |
| | 160L | 18.50 | S434 | | | 207 | | | | | 660 | | 170 | | | | 1112 | 1000 | |
| | 180M | 22.00 | | B110 | | 220 | | | | | | | | | | | 1174 | | |
| | 200L | 30.00 | S435 | B125 | | 287 | | | | | | | | | | | 1232 | | |
| 065250 | 160L | 18.50 | | B95 | 78 | 244 | | | | 540 | 740 | 490 | 200 | 90 | 280 | 530 | 1222 | 1140 | |
| | 180M | 22.00 | | B110 | | 257 | | | | | | | | | | | 1284 | | |
| | 200L | 30.00 | S436 | B125 | | 324 | | | | | 840 | | 215 | | | | 1342 | 1270 | |
| | 200L | 37.00 | | | | | | | | | | | | | | | | | |
| | 225M | 45.00 | S486 | | | 401 | | | | 610 | | 550 | 205 | | 325 | 575 | 1372 | 1250 | M24x400 |
| 080160 | 132S | 7.50 | S383 | B95 | 51 | 147 | 80 | 100 | 125 | 490 | 600 | 440 | 160 | 75 | 260 | 485 | 957 | 920 | M20x400 |
| | 160M | 11.00 | | | | 166 | | | | | | | | | | | 1075 | | |
| | 160M | 15.00 | | | | | | | | | | | | | | | | | |
| | 160L | 18.50 | S434 | | | 210 | | | | 540 | 660 | 490 | 170 | | | | 1137 | 1000 | |
| | 180M | 22.00 | | B110 | | 223 | | | | | | | | | | | 1199 | | |
| 080200 | 160M | 15.00 | | B95 | 71 | 202 | | | | | 740 | | 200 | | | 510 | 1185 | 1140 | |
| | 160L | 18.50 | S435 | | | 237 | | | | | | | | | | | 1247 | | |
| | 180M | 22.00 | | B110 | | 250 | | | | | | | | | | | 1309 | | |
| | 200L | 30.00 | S436 | B125 | | 317 | | | | | 840 | | 215 | | 280 | 530 | 1367 | 1270 | |
| | 200L | 37.00 | | | | | | | | | | | | | | | | | |
| 080250 | 180M | 22.00 | S486 | B110 | 84 | 282 | | | | 610 | | 550 | 205 | 90 | 300 | 580 | 1309 | 1250 | M24x400 |
| | 200L | 30.00 | | B125 | | 342 | | | | | | | | | | | 1367 | | |
| | 200L | 37.00 | | | | | | | | | | | | | | | | | |
| | 225M | 45.00 | | | | 407 | | | | | | | | | 325 | 605 | 1397 | | |
| | 250M | 55.00 | S607 | B140 | | 629 | | | | 730 | 940 | 670 | 230 | | 350 | 630 | 1527 | 1400 | |
| 100160 | 160L | 18.50 | S435 | B95 | 80 | 246 | 100 | 125 | 125 | 540 | 740 | 490 | 200 | | 280 | 560 | 1247 | 1140 | M20x400 |
| | 180M | 22.00 | | B110 | | 259 | | | | | | | | | | | 1309 | | |
| | 200L | 30.00 | S436 | B125 | | 326 | | | | | 840 | | 215 | | | | 1367 | 1270 | |
| | 200L | 37.00 | | | | | | | | | | | | | | | | | |
| 100200 | 160L | 18.50 | S435 | B95 | 79 | 245 | | | | | 740 | | 200 | | | | 1247 | 1140 | |
| | 180M | 22.00 | | B110 | | 258 | | | | | | | | | | | 1309 | | |
| | 200L | 30.00 | S436 | B125 | | 325 | | | | | 840 | | 215 | 90 | | | 1367 | 1270 | |
| | 200L | 37.00 | | | | | | | | | | | | | | | | | |
| | 225M | 45.00 | | | | 402 | | | | 610 | | 550 | 205 | | 325 | 605 | 1397 | 1250 | M24x400 |
| 100250 | 200L | 30.00 | S486 | | 89 | 347 | | | 140 | | | | | | | | 1382 | | |
| | 200L | 37.00 | | | | | | | | | | | | | | | | | |
| | 225M | 45.00 | | | | 412 | | | | | | | | | | | 1412 | | |
| | 250M | 55.00 | S607 | B140 | | 634 | | | | 730 | 940 | 670 | 230 | | 350 | 630 | 1542 | 1400 | |
| | 280S | 75.00 | S609A | B160 | | 903 | | | | 744 | 1200 | 696 | 300 | | 380 | 660 | 1642 | 1800 | |
| | 280M | 90.00 | | | | 953 | | | | | | | | | | | | | |
| 125200 | 250M | 55.00 | S607 | B140 | 102 | 647 | 125 | 150 | | 730 | 940 | 670 | 230 | | 350 | 665 | 1542 | 1400 | |
| | 280S | 75.00 | S609A | B160 | | 916 | | | | 744 | 1200 | 696 | 300 | | 380 | 695 | 1642 | 1800 | |
| | 280M | 90.00 | | | | 966 | | | | | | | | | | | | | |

* Motor protection type IP 55, dimensions depend on the motor manufacturer.
Some sizes are not corresponding to the drawing in small details.
Foundation plan for 60 Hz on request

**Foundation plan for units with spacer type coupling** **n = 1450 rpm**




Dimensions in mm.
Dimensional tolerances admissible (base plates) for welded parts according to DIN 8570 B

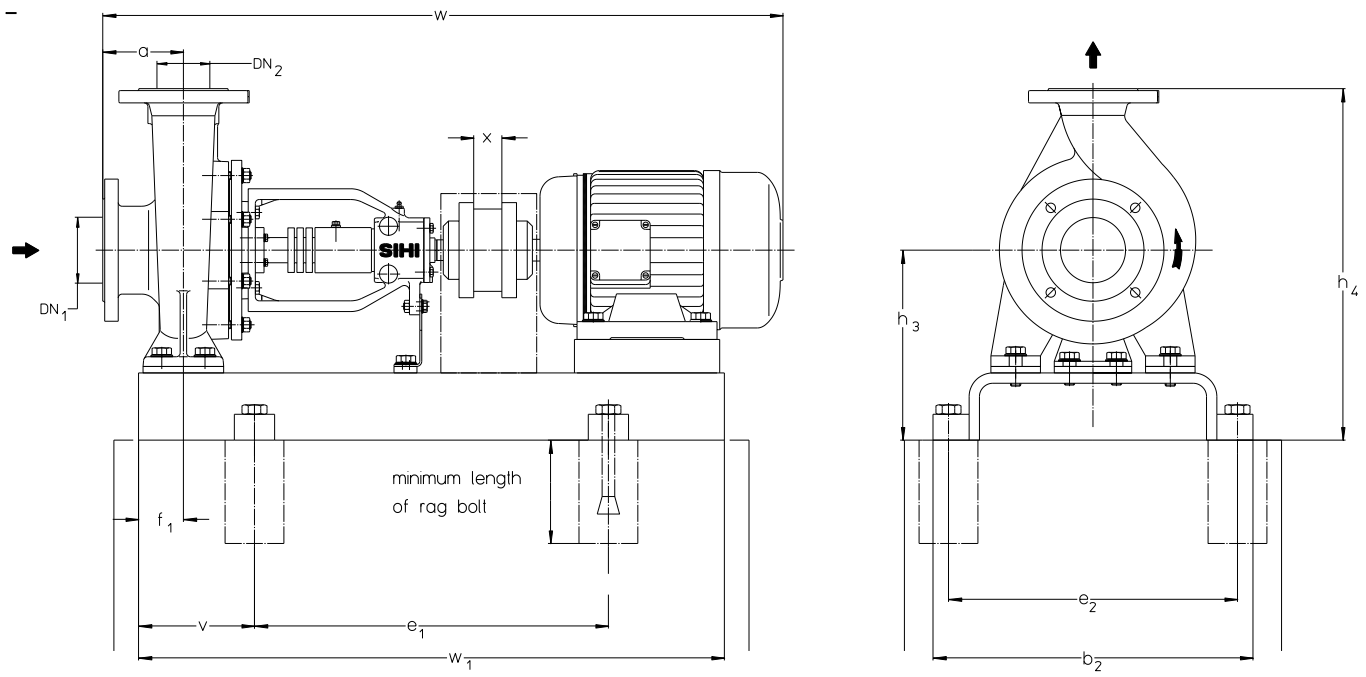
| size | motor size | motor kW | base-plate No. | coup-ling ** | weight pump kg | weight unit kg | $DN_2$ | $DN_1$ | a | $b_2$ | $e_1$ | $e_2$ | v | $f_1$ | $h_3$ | $h_4$ | x | w* | $w_1$ | rag bolt DIN 529 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 032125 | 71 | 0,25 | S241 | H80 | 32 | 63 | 32 | 50 | 80 | 330 | 480 | 290 | 125 | 60 | 177 | 317 | 100 | 780 | 730 | M16x200 |
| | 71 | 0.37 | | | | | | | | | | | | | | | | | | |
| 032160 | 71 | 0.37 | S301 | | 41 | 76 | | | | 390 | | 350 | | | 197 | 357 | | | | |
| | 80 | 0.55 | S272 | | | 80 | | | | 360 | 540 | 320 | 140 | | 225 | 405 | | 814 | 820 | |
| 032200 | 80 | 0.55 | | | 39 | 78 | | | | | | | | | | | | | | |
| | 80 | 0.75 | | | | | | | | | | | | | | | | | | |
| | 90S | 1.10 | | | | 81 | | | | | | | | | | | | 872 | | |
| | 90L | 1.50 | | | | 83 | | | | | | | | | | | | | | |
| 032250 | 80 | 0.75 | S383 | | 52 | 105 | | | 100 | 490 | 600 | 440 | 160 | 75 | 260 | 485 | | 834 | 920 | M20x400 |
| | 90S | 1.10 | | | | 108 | | | | | | | | | | | | 892 | | |
| | 90L | 1.50 | | | | 110 | | | | | | | | | | | | | | |
| | 100L | 2.20 | | | | 120 | | | | | | | | | | | | 933 | | |
| 040125 | 71 | 0,25 | S241 | H80 | 34 | 65 | 40 | 65 | 80 | 330 | 480 | 290 | 125 | 60 | 177 | 317 | | 780 | 730 | M16x200 |
| | 71 | 0.37 | | | | | | | | | | | | | | | | | | |
| | 80 | 0.55 | S272 | | | 73 | | | | 360 | 540 | 320 | 140 | | | | | 814 | 820 | |
| 040160 | 71 | 0.37 | S301 | | 39 | 74 | | | | 390 | 480 | 350 | 125 | | 197 | 357 | | 780 | 730 | |
| | 80 | 0.55 | S272 | | | 78 | | | | 360 | 540 | 320 | 140 | | | | | 814 | 820 | |
| | 80 | 0.75 | | | | | | | | | | | | | | | | | | |
| | 90S | 1.10 | | | | 81 | | | | | | | | | | | | 872 | | |
| 040200 | 80 | 0.55 | S342 | | 43 | 89 | | | 100 | 450 | 540 | 400 | 140 | | 240 | 420 | | 834 | 820 | M20x400 |
| | 80 | 0.75 | | | | | | | | | | | | | | | | | | |
| | 90S | 1.10 | | | | 92 | | | | | | | | | | | | 892 | | |
| | 90L | 1.50 | | | | 94 | | | | | | | | | | | | | | |
| 040250 | 90S | 1.10 | S383 | | 57 | 113 | | | | 490 | 600 | 440 | 160 | 75 | 260 | 485 | | 892 | 920 | |
| | 90L | 1.50 | | | | 115 | | | | | | | | | | | | | | |
| | 100L | 2.20 | | | | 125 | | | | | | | | | | | | 933 | | |
| | 100L | 3.00 | | | | | | | | | | | | | | | | | | |
| 040315 | 100L | 2.20 | S434 | | 87 | 171 | | | 125 | 540 | 660 | 490 | 170 | | 305 | 555 | | 1068 | 1000 | |
| | 100L | 3.00 | | | | | | | | | | | | | | | | | | |
| | 112M | 4.00 | | | | 172 | | | | | | | | | | | | 1089 | | |
| | 132S | 5.50 | S435 | H95 | | 207 | | | | | 740 | | 200 | | | | | 1165 | 1140 | |
| 050125 | 71 | 0.37 | S301 | H80 | 35 | 70 | 50 | 65 | 100 | 390 | 480 | 350 | 125 | 60 | 197 | 357 | | 800 | 730 | M16x200 |
| | 80 | 0.55 | S272 | | | 74 | | | | 360 | 540 | 320 | 140 | | | | | 834 | 820 | |
| | 80 | 0.75 | | | | | | | | | | | | | | | | | | |
| 050160 | 80 | 0.55 | S342 | | 44 | 90 | | | | 450 | | 400 | | | 240 | 420 | | | | M20x400 |
| | 80 | 0.75 | | | | | | | | | | | | | | | | | | |
| | 90S | 1.10 | | | | 93 | | | | | | | | | | | | 892 | | |
| 050200 | 80 | 0.75 | | | 43 | 89 | | | | | | | | | | 440 | | 834 | | |
| | 90S | 1.10 | | | | 92 | | | | | | | | | | | | 892 | | |
| | 90L | 1.50 | | | | 94 | | | | | | | | | | | | | | |
| | 100L | 2.20 | | | | 104 | | | | | | | | | | | | 933 | | |
| 050250 | 90L | 1.50 | S383 | | 57 | 115 | | | | 490 | 600 | 440 | 160 | 75 | 260 | 485 | | 892 | 920 | |
| | 100L | 2.20 | | | | 125 | | | | | | | | | | | | 933 | | |
| | 100L | 3.00 | | | | | | | | | | | | | | | | | | |
| | 112M | 4.00 | | | | 126 | | | | | | | | | | | | 954 | | |
| 050315 | 112M | 4.00 | S434 | | 90 | 175 | | | 125 | 540 | 660 | 490 | 170 | | 305 | 585 | | 1089 | 1000 | |
| | 132S | 5.50 | S435 | H95 | | 210 | | | | | 740 | | 200 | | | | | 1165 | 1140 | |
| | 132M | 7.50 | | | | 213 | | | | | | | | | | | | 1191 | | |

**Foundation plan for units with spacer type coupling** **n = 1450 rpm**

| size | motor size | motor kW | base plate No. | coup-ling ** | weight pump kg | weight unit kg | $DN_2$ | $DN_1$ | a | $b_2$ | $e_1$ | $e_2$ | v | $f_1$ | $h_3$ | $h_4$ | x | w* | $w_1$ | rag bolt DIN 529 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 065125 | 80 | 0,55 | S342 | H80 | 39 | 85 | 65 | 80 | 100 | 450 | 540 | 400 | 140 | 60 | 240 | 420 | 100 | 834 | 820 | M20x400 |
| | 80 | 0,75 | | | | | | | | | | | | | | | | | | |
| | 90S | 1,10 | | | | 88 | | | | | | | | | | | | 892 | | |
| 065160 | 80 | 0,75 | | | 45 | 91 | | | | | | | | | | 440 | | 834 | | |
| | 90S | 1,10 | | | | 94 | | | | | | | | | | | | 892 | | |
| | 90L | 1,50 | | | | 96 | | | | | | | | | | | | | | |
| | 100L | 2,20 | | | | 106 | | | | | | | | | | | | 933 | | |
| 065200 | 90S | 1,10 | S383 | | 48 | 104 | | | | 490 | 600 | 440 | 160 | 75 | 260 | 485 | | 932 | 920 | |
| | 90L | 1,50 | | | | 106 | | | | | | | | | | | | | | |
| | 100L | 2,20 | | | | 116 | | | | | | | | | | | | 973 | | |
| | 100L | 3,00 | | | | | | | | | | | | | | | | | | |
| | 112M | 4,00 | | | | 117 | | | | | | | | | | | | 994 | | |
| 065250 | 100L | 2,20 | S434 | | 78 | 162 | | | | 540 | 660 | 490 | 170 | 90 | 280 | 530 | | 1083 | 1000 | |
| | 100L | 3,00 | | | | | | | | | | | | | | | | | | |
| | 112M | 4,00 | | | | 163 | | | | | | | | | | | | 1104 | | |
| | 132S | 5,50 | S435 | H95 | | 198 | | | | | 740 | | 200 | | | | | 1180 | 1140 | |
| 065315 | 132S | 5,50 | S486 | | 94 | 233 | | | 125 | 610 | 840 | 550 | 205 | | 325 | 605 | | 1205 | 1250 | M24x400 |
| | 132M | 7,50 | | | | 236 | | | | | | | | | | | | 1231 | | |
| | 160M | 11,00 | | | | 252 | | | | | | | | | | | | 1323 | | |
| | 160L | 15,00 | | H110 | | 282 | | | | | | | | | | | | 1385 | | |
| 080160 | 80 | 0.75 | S383 | H80 | 51 | 104 | 80 | 100 | | 490 | 600 | 440 | 160 | 75 | 260 | 485 | | 899 | 920 | M20x400 |
| | 90S | 1.10 | | | | 107 | | | | | | | | | | | | 957 | | |
| | 90L | 1.50 | | | | 109 | | | | | | | | | | | | | | |
| | 100L | 2.20 | | | | 119 | | | | | | | | | | | | 998 | | |
| | 100L | 3.00 | | | | | | | | | | | | | | | | | | |
| 080200 | 90L | 1.50 | S434 | | 71 | 144 | | | | 540 | 660 | 490 | 170 | | | 510 | | 1067 | 1000 | |
| | 100L | 2.20 | | | | 155 | | | | | | | | | | | | 1108 | | |
| | 100L | 3.00 | | | | | | | | | | | | | | | | | | |
| | 112M | 4.00 | | | | 156 | | | | | | | | | | | | 1129 | | |
| | 132S | 5.50 | S435 | H95 | | 191 | | | | | 740 | | 200 | | | | | 1205 | 1140 | |
| 080250 | 100L | 3.00 | S486 | H80 | 84 | 194 | | | 125 | 610 | 840 | 550 | 205 | 90 | 300 | 580 | | 1108 | 1250 | M24x400 |
| | 112M | 4.00 | | | | 195 | | | | | | | | | | | | 1129 | | |
| | 132S | 5.50 | | H95 | | 223 | | | | | | | | | | | | 1205 | | |
| | 132M | 7.50 | | | | 226 | | | | | | | | | | | | 1231 | | |
| 080315 | 132S | 5.50 | | | 104 | 243 | | | | | | | | | 350 | 665 | | 1205 | | |
| | 132M | 7.50 | | | | 246 | | | | | | | | | | | | 1231 | | |
| | 160M | 11.00 | | | | 262 | | | | | | | | | | | | 1323 | | |
| | 160L | 15.00 | | H110 | | 292 | | | | | | | | | | | | 1385 | | |
| 100160 | 100L | 2.20 | S434 | H80 | 80 | 164 | 100 | 125 | | 540 | 660 | 490 | 170 | | 280 | 560 | | 1108 | 1000 | M20x400 |
| | 100L | 3.00 | | | | | | | | | | | | | | | | | | |
| | 112M | 4.00 | | | | 165 | | | | | | | | | | | | 1129 | | |
| | 132S | 5.50 | S435 | H95 | | 200 | | | | | 740 | | 200 | | | | | 1205 | 1140 | |
| 100200 | 100L | 2.20 | S434 | H80 | 79 | 163 | | | | 540 | 660 | 490 | 170 | | 280 | 560 | | 1108 | 1000 | M20x400 |
| | 100L | 3.00 | | | | | | | | | | | | | | | | | | |
| | 112M | 4.00 | | | | 164 | | | | | | | | | | | | 1129 | | |
| | 132S | 5.50 | S435 | H95 | | 199 | | | | | 740 | | 200 | | | | | 1205 | 1140 | |
| | 132M | 7.50 | | | | 202 | | | | | | | | | | | | 1231 | | |
| 100250 | 112M | 4.00 | S486 | H80 | 89 | 200 | | | 140 | 610 | 840 | 550 | 205 | | 325 | 605 | | 1144 | 1250 | M24x400 |
| | 132S | 5.50 | | H95 | | 228 | | | | | | | | | | | | 1220 | | |
| | 132M | 7.50 | | | | 231 | | | | | | | | | | | | 1246 | | |
| | 160M | 11.00 | | | | 247 | | | | | | | | | | | | 1338 | | |
| 100315 | 160M | 11.00 | | | 106 | 264 | | | | | | | | | 350 | 665 | | | | |
| | 160L | 15.00 | | H110 | | 294 | | | | | | | | | | | | 1400 | | |
| | 180M | 18.50 | | | | 306 | | | | | | | | | | | | 1462 | | |
| | 180L | 22.00 | | H125 | | 323 | | | | | | | | | | | | | | |
| 125200 | 132M | 7.50 | S486 | H95 | 102 | 244 | 125 | 150 | | | | | | | | | | 1246 | | |
| | 160M | 11.00 | | | | 260 | | | | | | | | | | | | 1338 | | |
| | 160L | 15.00 | | H110 | | 290 | | | | | | | | | | | | 1400 | | |
| 125250 | 132M | 7.50 | | H95 | 109 | 251 | | | | | | | | | | 705 | | 1246 | | |
| | 160M | 11.00 | | | | 267 | | | | | | | | | | | | 1338 | | |
| | 160L | 15.00 | | H110 | | 297 | | | | | | | | | | | | 1400 | | |
| 150200 | 132M | 7.50 | S605 | H95 | 120 | 279 | 150 | 200 | 160 | 730 | 740 | 670 | 190 | 110 | 380 | 780 | | 1266 | 1400 | |
| | 160M | 11.00 | S606 | | | 306 | | | | | 840 | | 205 | | | | | 1358 | | |
| | 160L | 15.00 | | H110 | | 337 | | | | | | | | | | | | 1423 | | |
| | 180M | 18.50 | | | | 349 | | | | | | | | | | | | 1482 | | |
| 150250 | 160L | 15.00 | | | 134 | 351 | | | | | 940 | | 230 | | | | | 1420 | 1250 | |
| | 180M | 18.50 | | | | 363 | | | | | | | | | | | | 1482 | | |
| | 180L | 22.00 | S607 | H125 | | 392 | | | | | | | | | | | | | 1400 | |
| | 200L | 30.00 | | | | 436 | | | | | | | | | | | | 1540 | | |
| 150315 | Foundation plans with base plates and fittings on request | | | | | | | | | | | | | | | | | | | |
| 150400 | | | | | | | | | | | | | | | | | | | | |
| 150500 | | | | | | | | | | | | | | | | | | | | |
| 200250 | | | | | | | | | | | | | | | | | | | | |
| 200315 | | | | | | | | | | | | | | | | | | | | |
| 200400 | | | | | | | | | | | | | | | | | | | | |
| 200500 | | | | | | | | | | | | | | | | | | | | |

* Motor protection type IP 55, dimensions depend on the motor manufacturer.
Some sizes are not corresponding to the drawing in small details.
Foundation plan for 60 Hz on request

**Foundation plan for units with spacer type coupling** **n = 2900 rpm**




Dimensions in mm.
Dimensional tolerances admissible (base plates) for welded parts according to DIN 8570 B

| size | motor size | motor kW | base plate No. | coupp-ling ** | weight pump kg | weight unit kg | $DN_2$ | $DN_1$ | a | $b_2$ | $e_1$ | $e_2$ | v | $f_1$ | $h_3$ | $h_4$ | x | w* | $w_1$ | rag bolt Din 529 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 032125 | 71 | 0.55 | S241 | H80 | 32 | 64 | 32 | 50 | 80 | 330 | 480 | 290 | 125 | 60 | 177 | 317 | 100 | 780 | 730 | M16x200 |
| | 80 | 0.75 | S272 | | | 72 | | | | 360 | 540 | 320 | 140 | | | | | 814 | 820 | |
| | 80 | 1.10 | | | | | | | | | | | | | | | | | | |
| | 90S | 1.50 | | | | 75 | | | | | | | | | | | | 872 | | |
| | 90L | 2.20 | | | | 77 | | | | | | | | | | | | | | |
| 032160 | 80 | 1,10 | | | 41 | 80 | | | | | | | | | 197 | 357 | | 814 | | |
| | 90S | 1.50 | | | | 83 | | | | | | | | | | | | 872 | | |
| | 90L | 2.20 | | | | 85 | | | | | | | | | | | | | | |
| | 100L | 3.00 | | | | 95 | | | | | | | | | | | | 913 | | |
| | 112M | 4.00 | | | | 96 | | | | | | | | | | | | 934 | | |
| | 132S | 5.50 | S303 | H95 | | 98 | | | | 390 | 600 | 350 | 160 | | | | | 993 | 920 | |
| | 132S | 7.50 | | | | | | | | | | | | | | | | 1012 | | |
| 032200 | 90L | 2.20 | S272 | H80 | 39 | 83 | | | | 360 | 540 | 320 | 140 | | 225 | 405 | | 872 | 820 | |
| | 100L | 3.00 | | | | 93 | | | | | | | | | | | | 913 | | |
| | 112M | 4.00 | | | | 94 | | | | | | | | | | | | 934 | | |
| | 132S | 5.50 | S303 | H95 | | 127 | | | | 390 | 600 | 350 | 160 | | | | | 1010 | 920 | |
| | 132S | 7.50 | | | | | | | | | | | | | | | | | | |
| | 160M | 11,00 | S344 | | | 158 | | | | 450 | 660 | 400 | 180 | | 240 | 420 | | 1128 | 1020 | M20x400 |
| | 160M | 15.00 | | | | | | | | | | | | | | | | | | |
| | 160L | 18.50 | S385 | | | 203 | | | | 490 | 740 | 440 | 200 | | | | | 1190 | 1140 | |
| 032250 | 132S | 7.50 | S383 | H95 | 52 | 149 | | | 100 | | 600 | | 160 | 75 | 260 | 485 | | 1030 | 920 | |
| | 160M | 11.0 | S434 | | | 184 | | | | 540 | 660 | 490 | 170 | | | | | 1148 | 1000 | |
| | 160M | 15.0 | | | | | | | | | | | | | | | | | | |
| 040125 | 80 | 1.10 | S272 | H80 | 34 | 73 | 40 | 65 | 80 | 360 | 540 | 320 | 140 | 60 | 177 | 317 | | 814 | 820 | M16x200 |
| | 90S | 1.50 | | | | 76 | | | | | | | | | | | | 872 | | |
| | 90L | 2.20 | | | | 78 | | | | | | | | | | | | | | |
| | 100L | 3.00 | | | | 88 | | | | | | | | | | | | 913 | | |
| 040160 | 90S | 1,50 | | | 39 | 81 | | | | | | | | | 197 | 357 | | 872 | | |
| | 90L | 2,20 | | | | 83 | | | | | | | | | | | | | | |
| | 100L | 3.00 | | | | 93 | | | | | | | | | | | | 913 | | |
| | 112M | 4.00 | | | | 94 | | | | | | | | | | | | 934 | | |
| | 132S | 5.50 | S303 | H95 | | 127 | | | | 390 | 600 | 350 | 160 | | | | | 1010 | 920 | |
| | 132S | 7.50 | | | | | | | | | | | | | | | | 993 | | |
| | 160M | 11.00 | S344 | | | 162 | | | | 450 | 660 | 400 | 180 | | 240 | 400 | | 1128 | 1020 | M20x400 |
| 040200 | 100L | 3,00 | S342 | H80 | 43 | 104 | | | 100 | | 540 | | 140 | | | 420 | | 933 | 820 | |
| | 112M | 4.00 | | | | 105 | | | | | | | | | | | | 954 | | |
| | 132S | 5.50 | S303 | H95 | | 131 | | | | 390 | 600 | 350 | 160 | | 225 | 405 | | 1030 | 920 | M16x200 |
| | 132S | 7.50 | | | | | | | | | | | | | | | | | | |
| | 160M | 11.00 | S344 | | | 160 | | | | 450 | 660 | 400 | 180 | | 240 | 420 | | 1148 | 1020 | M20x400 |
| | 160M | 15.00 | | | | | | | | | | | | | | | | | | |
| 040250 | 132S | 7.50 | S383 | | 57 | 154 | | | | 490 | 600 | 440 | 160 | 75 | 260 | 485 | | 1030 | 920 | |
| | 160M | 11.00 | S434 | | | 189 | | | | 540 | 660 | 490 | 170 | | | | | 1148 | 1000 | |
| | 160M | 15.00 | | | | | | | | | | | | | | | | | | |
| | 160L | 18.50 | S385 | | | 219 | | | | 490 | 740 | 440 | 200 | | | | | 1210 | 1140 | |

**Foundation plan for units with spacer type coupling** **n = 2900 rpm**

| size | motor size | motor kW | base plate No. | coup-ling ** | weight pump kg | weight unit kg | $DN_2$ | $DN_1$ | a | $b_2$ | $e_1$ | $e_2$ | v | $f_1$ | $h_3$ | $h_4$ | x | w* | $w_1$ | rag bolt DIN 529 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 050125 | 90S | 1,50 | S272 | H80 | 35 | 77 | 50 | 65 | 100 | 360 | 540 | 320 | 140 | 60 | 197 | 357 | 100 | 892 | 820 | M16x200 |
| | 90L | 2,20 | | | | 79 | | | | | | | | | | | | | | |
| | 100L | 3,00 | S015 | | | 89 | | | | 361 | 600 | 325 | 160 | | 182 | 342 | | 933 | 920 | M12x100 |
| | 112M | 4,00 | | | | 90 | | | | | | | | | | | | 954 | | |
| | 132S | 5,50 | S303 | H95 | | 123 | | | | 390 | | 350 | | | 197 | 357 | | 1030 | | M16x200 |
| 050160 | 90L | 2,20 | S342 | H80 | 44 | 95 | | | | 450 | 540 | 400 | 140 | | 240 | 420 | | 892 | 820 | M20x400 |
| | 100L | 3,00 | | | | 105 | | | | | | | | | | | | 933 | | |
| | 112M | 4,00 | | | | 106 | | | | | | | | | | | | 954 | | |
| | 132S | 5,50 | S303 | H95 | | 132 | | | | 390 | 600 | 350 | 160 | | 225 | 405 | | 1030 | 920 | M16x200 |
| | 132S | 7,50 | | | | | | | | | | | | | | | | | | |
| | 160M | 11,00 | S344 | | | 161 | | | | 450 | 660 | 400 | 180 | | 240 | 420 | | 1148 | 1020 | M20x400 |
| 050200 | 100L | 3,00 | S342 | H80 | 43 | 104 | | | | | 540 | | 140 | | | 440 | | 933 | 820 | |
| | 112M | 4,00 | | | | 105 | | | | | | | | | | | | 954 | | |
| | 132S | 5,50 | S303 | H95 | | 131 | | | | 390 | 600 | 350 | 160 | | 225 | 425 | | 1030 | 920 | M16x200 |
| | 132S | 7,50 | | | | | | | | | | | | | | | | | | |
| | 160M | 11,00 | S344 | | | 160 | | | | 450 | 660 | 400 | 180 | | 240 | 440 | | 1148 | 1020 | M20x400 |
| | 160M | 15,00 | | | | | | | | | | | | | | | | | | |
| | 160L | 18,50 | S385 | | | 195 | | | | 490 | 740 | 440 | 200 | | | | | 1210 | 1140 | |
| 050250 | 160M | 11,00 | S434 | | 57 | 189 | | | | 540 | 660 | 490 | 170 | 75 | 260 | 485 | | 1148 | 1000 | |
| | 160M | 15,00 | | | | | | | | | | | | | | | | | | |
| | 160L | 18,50 | S385 | | | 219 | | | | 490 | 740 | 440 | 200 | | | | | 1210 | 1140 | |
| | 180M | 22,00 | S435 | H110 | | 238 | | | | 540 | | 490 | | | | | | 1272 | | |
| | 200L | 30,00 | | H25 | | 299 | | | | | | | | | 280 | 505 | | 1330 | | |
| 065125 | 100L | 3.00 | S342 | H80 | 39 | 100 | 65 | 80 | | 450 | 540 | 400 | 140 | 60 | 240 | 420 | | 933 | 820 | M20x400 |
| | 112M | 4.00 | | | | 101 | | | | | | | | | | | | 954 | | |
| | 132S | 5.50 | S383 | H95 | | 136 | | | | 490 | 600 | 440 | 160 | | | | | 1030 | 920 | |
| | 132S | 7.50 | | | | | | | | | | | | | | | | | | |
| 065160 | 132S | 5.50 | | | 45 | 142 | | | | | | | | | | 440 | | | | |
| | 132S | 7.50 | | | | | | | | | | | | | | | | | | |
| | 160M | 11.00 | S344 | | | 162 | | | | 450 | 660 | 400 | 180 | | | | | 1148 | 1020 | |
| | 160M | 15.00 | | | | | | | | | | | | | | | | | | |
| 065200 | 160M | 11.00 | S385 | H95 | 48 | 182 | | | | 490 | 740 | 440 | 200 | 75 | 260 | 485 | 140 | 1188 | 1140 | |
| | 160M | 15.00 | | | | | | | | | | | | | | | | | | |
| | 160L | 18.50 | | | | 210 | | | | | | | | | | | | 1250 | | |
| | 180M | 22.00 | S435 | H110 | | 229 | | | | 540 | 840 | 490 | 215 | 90 | 280 | 505 | | 1312 | 1270 | |
| | 200L | 30.00 | S436 | H125 | | 297 | | | | | | | | | | 530 | | 1370 | | |
| 065250 | 160L | 18.50 | | H95 | 78 | 252 | | | | | | | | | | | | 1360 | | |
| | 180M | 22.00 | | H110 | | 266 | | | | | | | | | | | | 1422 | | |
| | 200L | 30.00 | S487 | H125 | | 362 | | | | 610 | 940 | 550 | 240 | | 300 | 550 | | 1480 | 1420 | M24x400 |
| | 200L | 37.00 | | | | | | | | | | | | | | | | | | |
| | 225M | 45.00 | S607 | | | 445 | | | | 730 | | 670 | 230 | | 325 | 575 | | 1510 | 1400 | |
| 080160 | 132S | 7.50 | S434 | H95 | 51 | 164 | 80 | 100 | 125 | 540 | 660 | 490 | 170 | 75 | 260 | 485 | 140 | 1095 | 1000 | M20x400 |
| | 160M | 11.00 | S385 | | | 165 | | | | 490 | 740 | 440 | 200 | | | | | 1213 | 1140 | |
| | 160M | 15.00 | | | | | | | | | | | | | | | | | | |
| | 160L | 18.50 | | | | 213 | | | | | | | | | | | | 1275 | | |
| | 180M | 22.00 | S435 | H110 | | 232 | | | | 540 | | 490 | | | | | | 1337 | | |
| 080200 | 160M | 15.00 | | H95 | 71 | 210 | | | | | 840 | | 215 | | | 510 | | 1323 | 1270 | |
| | 160L | 18.50 | S436 | | | 244 | | | | | | | | | | | | 1385 | | |
| | 180M | 22.00 | | H110 | | 258 | | | | | | | | | | | | 1447 | | |
| | 200L | 30.00 | S487 | H125 | | 354 | | | | 610 | 940 | 550 | 240 | | 300 | 550 | | 1505 | 1420 | M24x400 |
| | 200L | 37.00 | | | | | | | | | | | | | | | | | | |
| 080250 | 180M | 22.00 | S486 | H110 | 84 | 284 | | | | | 840 | | 205 | 90 | | 580 | | 1447 | 1250 | |
| | 200L | 30.00 | S487 | H125 | | 368 | | | | | 940 | | 240 | | | | | 1505 | 1420 | |
| | 200L | 37.00 | | | | | | | | | | | | | | | | | | |
| | 225M | 45.00 | S607 | H125 | | 451 | | | | 730 | | 670 | 230 | | 325 | 605 | | 1535 | 1400 | |
| | 250M | 55.00 | S608 | H140 | | 651 | | | | | 1060 | | 270 | | 350 | 630 | | 1665 | 1600 | |
| 100160 | 160L | 18.50 | S436 | H95 | 80 | 254 | 100 | 125 | | 540 | 840 | 490 | 215 | | 280 | 560 | | 1385 | 1270 | M20x400 |
| | 180M | 22.00 | | H110 | | 268 | | | | | | | | | | | | 1447 | | |
| | 200L | 30.00 | S487 | H125 | | 364 | | | | 610 | 940 | 550 | 240 | | 300 | 580 | | 1505 | 1420 | M24x400 |
| | 200L | 37.00 | | | | | | | | | | | | | | | | | | |
| 100200 | 160L | 18.50 | S436 | H95 | 79 | 253 | | | | 540 | 840 | 490 | 215 | | 280 | 560 | | 1385 | 1270 | M20x400 |
| | 180M | 22.00 | | H110 | | 267 | | | | | | | | | | | | 1447 | | |
| | 200L | 30.00 | S487 | H125 | | 363 | | | | 610 | 940 | 550 | 240 | | 300 | 580 | | 1505 | 1420 | M24x400 |
| | 200L | 37.00 | | | | | | | | | | | | | | | | | | |
| | 225M | 45.00 | S607 | | | 446 | | | | 730 | | 670 | 230 | | 325 | 605 | | 1535 | 1400 | |
| 100250 | 200L | 30.00 | S487 | H125 | 89 | 373 | | | 140 | 610 | | 550 | 240 | | | | | 1520 | 1420 | |
| | 200L | 37.00 | | | | | | | | | | | | | | | | | | |
| | 225M | 45.00 | S607 | | | 456 | | | | 730 | | 670 | 230 | | | | | 1550 | 1400 | |
| | 250M | 55.00 | S608 | H140 | | 656 | | | | | 1060 | | 270 | | 350 | 630 | | 1680 | 1600 | |
| | 280S | 75.00 | S609A | H160 | | 909 | | | | 744 | 1200 | 696 | 300 | | 380 | 660 | | 1780 | 1800 | |
| | 280M | 90.00 | | | | 959 | | | | | | | | | | | | | | |
| 125200 | 250M | 55.00 | S608 | H140 | 102 | 669 | 125 | 150 | | 730 | 1060 | 670 | 270 | | 350 | 665 | | 1680 | 1600 | |
| | 280S | 75.00 | S609A | H160 | | 922 | | | | 744 | 1200 | 696 | 300 | | 380 | 695 | | 1780 | 1800 | |
| | 280M | 90.00 | | | | 972 | | | | | | | | | | | | | | |

* Motor protection type IP 55, dimensions depend on the motor manufacturer.
Some sizes are not corresponding to the drawing in small details.
Foundation plan for 60 Hz on request

**Data regarding pump size**

| Type + Pump size | | Hydraulics + Bearing | Shaft sealing | Material | Casing gasket |
|---|---|---|---|---|---|
| | | A· hydraulic A<br>B· hydraulic B<br>D: transnorm size with double volute<br>·A one ball bearing respectively two inclined ball bearing grease lubricated and one liquid flushed sleeve bearing | 002 radial shaft seal rings<br>GBC unbalanced standard mechanical seal | 1B main parts of sperodial cast<br>2B main parts of cast steel | 2 confined flat gasket of graphite with A4 insertion |
| ZTND | 032125 | AA | alternatively<br>002<br>GBC | 1B | 2 |
| | 032160 | | | | |
| | 032160 | BA | | | |
| | 032200 | AA | | | |
| | 032200 | BA | | | |
| | 032250 | AA | | | |
| | 040125 | | | | |
| | 040160 | | | | |
| | 040200 | | | | |
| | 040250 | | | | |
| | 040315 | | | | |
| | 050125 | | | | |
| | 050160 | | | | |
| | 050200 | | | | |
| | 050250 | | | | |
| | 050315 | | | | |
| | 065125 | | | | |
| | 065160 | | | | |
| | 065200 | | | | |
| | 065250 | | | | |
| | 065315 | | | | |
| | 080160 | | | | |
| | 080200 | | | | |
| | 080250 | | | | |
| | 080315 | | | | |
| | 100160 | | | | |
| | 100200 | | | | |
| | 100250 | | | | |
| | 100315 | | | | |
| | 125200 | | | | |
| | 125250 | | | | |
| | 150200 | | | | |
| | 150250 | | | | |
| | 150315 | | | | |
| | 150400 | | | | |
| | 150500 | | | | |
| | 200250 | | | | |
| | 200315 | | | | |
| | 200400 | DA | | 2B | |
| | 200500 | | | | |

**Sterling SIHI (Spain), S.L.**
Vereda de los Zapateros s/n, Pozuelo de Alarcón 28223 Madrid, Spain.
Telephone +34 91 709 1310  Telefax +34 91 715 9700
www.sihi.com